

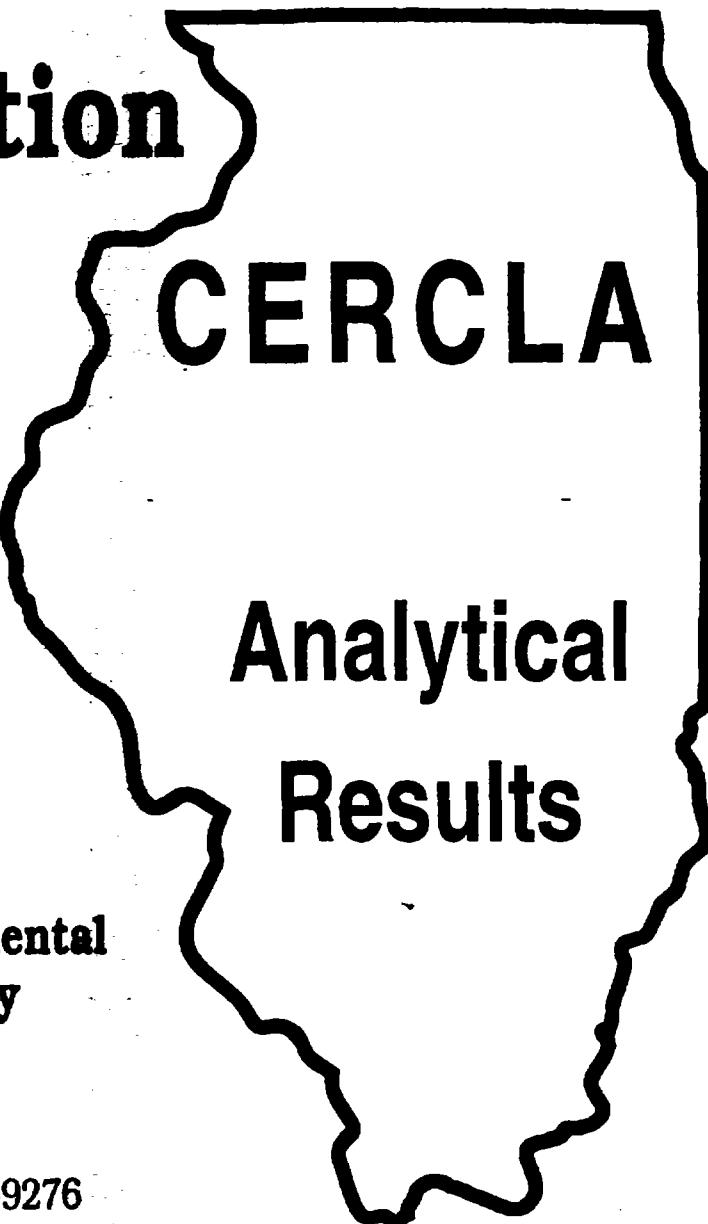
Site

Team

Evaluation

Prioritization

Decatur/Bardings & Spawr LF
ILD984 766 378



CERCLA

Analytical

Results

EPA Region 5 Records Ctr.



305338



**Illinois Environmental
Protection Agency**

2200 Churchill Road
P. O. Box 19276
Springfield, IL 62794-9276

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: January 3, 1997

SUBJECT: Review of Data
Received for Review on December 23, 1996

FROM: Stephen L. Ostroka, Chief (SRT-4J)
Superfund Technical Support Section

TO: Data User: IEPA

Patricia J Scott for Steve Ostroka
01/11/97

We have reviewed the data for the following case:

SITE NAME: Decatur/Bardings & Spaur (IL)

CASE NUMBER: 25141 SDG NUMBER: EBJD1

Number and Type of Samples: 8 Soil

Sample Numbers: EBJD1-3, 5-9

Laboratory: ATAS Hrs. for Review: _____

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

RECEIVED
JAN 21 1997
IEPA/DLPC

CC: Brian Freeman
Region 5 TPO
Mail Code: SM-5J

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) Soil samples, numbered EBJD1 through EBJD3, were collected on November 13 and 14, 1996. The lab received the samples on November 14th, 1996 in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW OLM03.2 3/90.

5-4 AFJ
11/14/97

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

Case Number : 25141 SDG Number: EBJD1
Site Name: Decatur/Bardings & Spaur (IL) Laboratory: ATAS

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone

EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, EBJD5MSD
EBJD6, EBJD7, EBJD8, EBJD9, VBLK2W

4-Methyl-2-Pentanone
VBLK1S, VHBLK1S

2-Hexanone

VBLK1S, VHBLK1S

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)
EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, SBLK6A

2,4-Dinitrophenol
EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, EBJD5MSD
EBJD6, EBJD7, EBJD8, EBJD9, SBLK6A

4-Nitrophenol
EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, EBJD5MSD
EBJD6, EBJD7, EBJD8, EBJD9, SBLK6A

4-Nitroaniline
EBJD5MSD, EBJD6, EBJD7, EBJD8, EBJD9

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

Case Number : 25141
site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1
Laboratory: ATAS

The following pesticide samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Endosulfan I

EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, EBJD5MSD
EBJD6, EBJD7, EBJD7DL, EBJD8, EBJD9, PBLK1

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

EBJD1, EBJD2, EBJD3, EBJD5, EBJD5MS, EBJD5MSD
EBJD6, EBJD7, EBJD8, EBJD9

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Di-n-butylphthalate
EBJD8

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems found for this qualification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems found for this qualification.

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

Case Number : 25141
Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1
Laboratory: ATAS

7. FIELD BLANK AND FIELD DUPLICATE

No field blanks were included in this data set. Sample EBJD3 is a field duplicate of Sample EBJD2. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

VBLK2W
Methylene Chloride

EBJD3
Xylene (total)

EBJD5
Chlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EBJD1
bis(2-Ethylhexyl)phthalate

EBJD2
Acenaphthene, Dibenzofuran, Fluorene, Anthracene,
Carbazole, bis(2-Ethylhexyl)phthalate

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

Case Number : 25141
Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1
Laboratory: ATAS

Ebjd3

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene,
Chrysene, bis(2-Ethylhexyl)phthalate,
Benzo(b)fluoranthene, Benzo(k)fluoranthene,
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,
Benzo(g,h,i)perylene

Ebjd5

N-Nitrosodiphenylamine, Pyrene,
bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene,
Benzo(k)fluoranthene, Benzo(a)pyrene,
Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

Ebjd5MS

bis(2-Ethylhexyl)phthalate

Ebjd5MSD

N-Nitrosodiphenylamine, bis(2-Ethylhexyl)phthalate

Ebjd6

Naphthalene, 2-Methylnaphthalene, Acenaphthylene,
Fluorene, Anthracene, Carbazole,
bis(2-Ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene

Ebjd7

Acenaphthylene, Phenanthrene, Anthracene,
bis(2-Ethylhexyl)phthalate

Ebjd8

Naphthalene, 2-Methylnaphthalene, Acenaphthylene,
Phenanthrene, Anthracene, Butylbenzylphthalate,
bis(2-Ethylhexyl)phthalate

Ebjd9

Phenanthrene, Fluoranthene, Pyrene,
bis(2-Ethylhexyl)phthalate

Sblk6A

Di-n-butylphthalate

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

Case Number : 25141
Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1
Laboratory: ATAS

12. ADDITIONAL INFORMATION
None.

Reviewed By: Ziyad A. Rajabi
Date: January 3, 1997

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJD1Site: Decatur/Bardings & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJD1 X101 Routine Sample Soil/LOW 1.0 17	EBJD2 X102 Routine Sample Soil/LOW 1.0 20	EBJD3 X103 Duplicate Sample Soil/LOW 1.0 21	EBJD5 X105 Routine Sample Soil/LOW 1.0 16	EBJD5MS X105 Matrix Spike Soil/LOW 1.0 16
VOA					
Chloromethane	12 U	12 U	13 U	12 U	12 U
Bromomethane	12 U	12 U	13 U	12 U	12 U
Vinyl Chloride	12 U	12 U	13 U	12 U	12 U
Chloroethane	12 U	12 U	13 U	12 U	12 U
Methylene Chloride	12 U	12 U	13 U	12 U	12 U
Acetone	12 UJ	12 UJ	13 UJ	20 J	19 J
Carbon Disulfide	12 U	12 U	13 U	12 U	12 U
1,1-Dichloroethene	12 U	12 U	13 U	12 U	57
1,1-Dichloroethane	12 U	12 U	13 U	12 U	12 U
1,2-Dichloroethene (total)	12 U	12 U	13 U	12 U	12 U
Chloroform	12 U	12 U	13 U	12 U	12 U
1,2-Dichloroethane	12 U	12 U	13 U	12 U	12 U
2-Butanone	12 U	12 U	13 U	12 U	12 U
1,1,1-Trichloroethane	12 U	12 U	13 U	12 U	12 U
Carbon Tetrachloride	12 U	12 U	13 U	12 U	12 U
Bromodichloromethane	12 U	12 U	13 U	12 U	12 U
1,2-Dichloropropane	12 U	12 U	13 U	12 U	12 U
cis-1,3-Dichloropropene	12 U	12 U	13 U	12 U	12 U
Trichloroethene	12 U	12 U	13 U	12 U	53
Dibromo-chloromethane	12 U	12 U	13 U	12 U	12 U
1,1,2-Trichloroethane	12 U	12 U	13 U	12 U	12 U
Benzene	12 U	12 U	13 U	12 U	55
trans-1,3-Dichloropropene	12 U	12 U	13 U	12 U	12 U
Bromoform	12 U	12 U	13 U	12 U	12 U
4-Methyl-2-Pentanone	12 U	12 U	13 U	12 U	12 U
2-Hexanone	12 U	12 U	13 U	12 U	12 U
Tetrachloroethene	12 U	12 U	13 U	12 U	12 U
1,1,2,2-Tetrachloroethane	12 U	12 U	13 U	12 U	12 U
Toluene	12 U	12 U	13 U	12 U	48
Chlorobenzene	12 U	12 U	13 U	5 J	46
Ethylbenzene	12 U	12 U	13 U	12 U	12 U
Styrene	12 U	12 U	13 U	12 U	12 U
Xylene (total)	12 U	12 U	3 J	12 U	12 U

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

PAGE: 1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJD1Site: Decatur/Bardings & Speur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	EBJD5MSD	EBJD6	EBJD7	EBJD8	EBJD9			
REGIONAL SAMPLE NUMBER:								
SAMPLE LOCATION:	X105	X201	X202	X203	X204			
SAMPLE TYPE:	Matrix Spike Dup	Routine Sample	Routine Sample	Routine Sample	Routine Sample			
MATRIX/ANALYSIS:	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW			
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0			
PERCENT MOISTURE:	16	24	24	19	29			
VOA								
Chloromethane	12	U	13	U	12	U	14	U
Bromomethane	12	U	13	U	12	U	14	U
Vinyl Chloride	12	U	13	U	12	U	14	U
Chloroethane	12	U	13	U	12	U	14	U
Methylene Chloride	12	U	13	U	12	U	14	U
Acetone	21	J	13	UJ	12	UJ	14	UJ
Carbon Disulfide	12	U	13	U	12	U	14	U
1,1-Dichloroethene	57		13	U	12	U	14	U
1,1-Dichloroethane	12	U	13	U	12	U	14	U
1,2-Dichloroethene (total)	12	U	13	U	12	U	14	U
Chloroform	12	U	13	U	12	U	14	U
1,2-Dichloroethane	12	U	13	U	12	U	14	U
2-Butanone	12	U	13	U	12	U	14	U
1,1,1-Trichloroethane	12	U	13	U	12	U	14	U
Carbon Tetrachloride	12	U	13	U	12	U	14	U
Bromodichloromethane	12	U	13	U	12	U	14	U
1,2-Dichloropropane	12	U	13	U	12	U	14	U
cis-1,3-Dichloropropene	12	U	13	U	12	U	14	U
Trichloroethene	54		13	U	12	U	14	U
Dibromochloromethane	12	U	13	U	12	U	14	U
1,1,2-Trichloroethane	12	U	13	U	12	U	14	U
Benzene	56		13	U	12	U	14	U
trans-1,3-Dichloropropene	12	U	13	U	12	U	14	U
Bromoform	12	U	13	U	12	U	14	U
4-Methyl-2-Pentanone	12	U	13	U	12	U	14	U
2-Hexanone	12	U	13	U	12	U	14	U
Tetrachloroethene	12	U	13	U	12	U	14	U
1,1,2,2-Tetrachloroethane	12	U	13	U	12	U	14	U
Toluene	47		13	U	12	U	14	U
Chlorobenzene	48		13	U	12	U	14	U
Ethylbenzene	12	U	13	U	12	U	14	U
Styrene	12	U	13	U	12	U	14	U
Xylene (total)	12	U	13	U	12	U	14	U

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

PAGE: 2

Water units are reported in ug/L.
 Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJD1Site: Decatur/Bardings & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	VBLK1S	VBLK2W	VHBLK1S		
REGIONAL SAMPLE NUMBER:					
SAMPLE LOCATION:					
SAMPLE TYPE:	Method Blank	Method Blank	Storage Blank		
MATRIX/ANALYSIS:	Water/LOW	Soil/LOW	Water/LOW		
DILUTION FACTOR:	1.0	1.0	1.0		
PERCENT MOISTURE:	0				
VOA					
Chloromethane	10 U	10 U	10 U		
Bromomethane	10 U	10 U	10 U		
Vinyl Chloride	10 U	10 U	10 U		
Chloroethane	10 U	10 U	10 U		
Methylene Chloride	10 U	8 J	10 U		
Acetone	10 U	10 U	10 U		
Carbon Disulfide	10 U	10 U	10 U		
1,1-Dichloroethene	10 U	10 U	10 U		
1,1-Dichloroethane	10 U	10 U	10 U		
1,2-Dichloroethene (total)	10 U	10 U	10 U		
Chloroform	10 U	10 U	10 U		
1,2-Dichloroethane	10 U	10 U	10 U		
2-Butanone	10 U	10 U	10 U		
1,1,1-Trichloroethane	10 U	10 U	10 U		
Carbon Tetrachloride	10 U	10 U	10 U		
Bromodichloromethane	10 U	10 U	10 U		
1,2-Dichloropropane	10 U	10 U	10 U		
cis-1,3-Dichloropropene	10 U	10 U	10 U		
Trichloroethene	10 U	10 U	10 U		
Dibromochloromethane	10 U	10 U	10 U		
1,1,2-Trichloroethane	10 U	10 U	10 U		
Benzene	10 U	10 U	10 U		
trans-1,3-Dichloropropene	10 U	10 U	10 U		
Bromoform	10 U	10 U	10 U		
4-Methyl-2-Pentanone	10 UJ	10 U	10 UJ		
2-Hexanone	10 UJ	10 U	10 UJ		
Tetrachloroethene	10 U	10 U	10 U		
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U		
Toluene	10 U	10 U	10 U		
Chlorobenzene	10 U	10 U	10 U		
Ethylbenzene	10 U	10 U	10 U		
Styrene	10 U	10 U	10 U		
Xylene (total)	10 U	10 U	10 U		

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

PAGE: 3

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJD1Site: Decatur/Bardings & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	EBJD1	EBJD2	EBJD3	EBJD5	EBJD5MS
REGIONAL SAMPLE NUMBER:					
SAMPLE LOCATION:	X101	X102	X103	X105	X105
SAMPLE TYPE:	Routine Sample	Routine Sample	Duplicate Sample	Routine Sample	Matrix Spike
MATRIX/ANALYSIS:	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
PERCENT MOISTURE:	17	20	21	16	16
BNA					
Phenol	400 U	410 U	420 U	390 U	1400
bis(2-Chloroethyl)ether	400 U	410 U	420 U	390 U	390 U
2-Chlorophenol	400 U	410 U	420 U	390 U	1600
1,3-Dichlorobenzene	400 U	410 U	420 U	390 U	390 U
1,4-Dichlorobenzene	400 U	410 U	420 U	390 U	1200
1,2-Dichlorobenzene	400 U	410 U	420 U	390 U	390 U
2-Methylphenol	400 U	410 U	420 U	390 U	390 U
2,2'-oxybis(1-Chloropropane)	400 UJ	410 UJ	420 UJ	390 UJ	390 UJ
4-Methylphenol	400 U	410 U	420 U	390 U	390 U
N-Nitroso-di-n-propylamine	400 U	410 U	420 U	390 U	1400
Hexachloroethane	400 U	410 U	420 U	390 U	390 U
Nitrobenzene	400 U	410 U	420 U	390 U	390 U
Isophorone	400 U	410 U	420 U	390 U	390 U
2-Nitrophenol	400 U	410 U	420 U	390 U	390 U
2,4-Dimethylphenol	400 U	410 U	420 U	390 U	390 U
bis(2-Chloroethoxy)methane	400 U	410 U	420 U	390 U	390 U
2,4-Dichlorophenol	400 U	410 U	420 U	390 U	390 U
1,2,4-Trichlorobenzene	400 U	410 U	420 U	390 U	1400
Naphthalene	400 U	410 U	420 U	390 U	390 U
4-Chloroaniline	400 U	410 U	420 U	390 U	390 U
Hexachlorobutadiene	400 U	410 U	420 U	390 U	390 U
4-Chloro-3-methylphenol	400 U	410 U	420 U	390 U	1900
2-Methylnaphthalene	400 U	410 U	420 U	390 U	390 U
Hexachlorocyclopentadiene	400 U	410 U	420 U	390 U	390 U
2,4,6-Trichlorophenol	400 U	410 U	420 U	390 U	390 U
2,4,5-Trichlorophenol	960 U	1000 U	1000 U	950 U	950 U
2-Chloronaphthalene	400 U	410 U	420 U	390 U	390 U
2-Nitroaniline	960 U	1000 U	1000 U	950 U	950 U
Dimethylphthalate	400 U	410 U	420 U	390 U	390 U
Acenaphthylene	400 U	410 U	420 U	390 U	390 U
2,6-Dinitrotoluene	400 U	410 U	420 U	390 U	390 U
3-Nitroaniline	960 U	1000 U	1000 U	950 U	950 U
Acenaphthene	400 U	190 J	420 U	390 U	1200
2,4-Dinitrophenol	960 UJ	1000 UJ	1000 UJ	950 UJ	950 UJ
4-Nitrophenol	960 UJ	1000 UJ	1000 UJ	950 UJ	1900 J
Dibenzofuran	400 U	83 J	420 U	390 U	390 U
2,4-Dinitrotoluene	400 U	410 U	420 U	390 U	1200
Diethylphthalate	400 U	410 U	420 U	390 U	390 U
4-Chlorophenyl-phenylether	400 U	410 U	420 U	390 U	390 U
Fluorene	400 U	190 J	420 U	390 U	390 U
4-Nitroaniline	960 U	1000 U	1000 U	950 U	950 U
4,6-Dinitro-2-methylphenol	960 U	1000 U	1000 U	950 U	950 U
N-Nitrosodiphenylamine (1)	400 U	410 U	420 U	160 J	390 U
4-Bromophenyl-phenylether	400 U	410 U	420 U	390 U	390 U
Hexachlorobenzene	400 U	410 U	420 U	390 U	390 U
Pentachlorophenol	960 U	1000 U	1000 U	950 U	1500
Phenanthrene	400 U	1300 U	160 J	390 U	390 U
Anthracene	400 U	350 J	420 U	390 U	390 U
Carbazole	400 U	140 J	420 U	390 U	390 U
Di-n-butylphthalate	400 U	410 U	420 U	390 U	390 U
Fluoranthen	400 U	1400 U	280 J	390 U	390 U
Pyrene	400 U	1200 U	240 J	26 J	800
Butylbenzylphthalate	400 U	410 U	420 U	390 U	390 U
3,3'-Dichlorobenzidine	400 U	410 U	420 U	390 U	390 U
Benzo(a)anthracene	400 U	510 U	130 J	390 U	390 U
Chrysene	400 U	630 U	180 J	390 U	390 U
bis(2-Ethylhexyl)phthalate	36 J	62 J	74 J	200 J	240 J
Di-n-octylphthalate	400 U	410 U	420 U	390 U	390 U
Benzo(b)fluoranthene	400 U	500 U	140 J	48 J	390 U
Benzo(k)fluoranthene	400 U	440 U	120 J	35 J	390 U
Benzo(a)pyrene	400 U	590 U	140 J	48 J	390 U
Indeno(1,2,3-cd)pyrene	400 U	410 U	150 J	50 J	390 U
Dibenz(a,h)anthracene	400 U	410 U	420 U	390 U	390 U
Benzo(g,h,i)perylene	400 U	650 U	190 J	60 J	390 U

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJD1Site: Decatur/Bardings & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	EBJD5MSD	EBJD6	EBJD7	EBJD8	EBJD9
REGIONAL SAMPLE NUMBER:					
SAMPLE LOCATION:	X105	X201	X202	X203	X204
SAMPLE TYPE:	Matrix Spike Dup	Routine Sample	Routine Sample	Routine Sample	Routine Sample
MATRIX/ANALYSIS:	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW	Soil/LOW
DILUTION FACTOR:	1.0	1.0	1.0	1.0	1.0
PERCENT MOISTURE:	16	24	24	19	29
BNA					
Phenol	1700	430	430	410	460
bis(2-Chloroethyl)ether	390	U	430	410	460
2-Chlorophenol	1800	430	430	410	460
1,3-Dichlorobenzene	390	U	430	410	460
1,4-Dichlorobenzene	1300	430	430	410	460
1,2-Dichlorobenzene	390	U	430	410	460
2-Methylphenol	390	U	430	410	460
2,2'-oxybis(1-Chloropropane)	390	U	430	410	460
4-Methylphenol	390	U	430	410	460
N-Nitroso-di-n-propylamine	1800	430	430	410	460
Hexachloroethane	390	U	430	410	460
Nitrobenzene	390	U	430	410	460
Isophorone	390	U	430	410	460
2-Nitrophenol	390	U	430	410	460
2,4-Dimethylphenol	390	U	430	410	460
bis(2-Chloroethoxy)methane	390	U	430	410	460
2,4-Dichlorophenol	390	U	430	410	460
1,2,4-Trichlorobenzene	1300	430	430	410	460
Naphthalene	390	U	68	J	60
4-Chloroaniline	390	U	430	410	460
Hexachlorobutadiene	390	U	430	410	460
4-Chloro-3-methylphenol	2100	430	430	410	460
2-Methylnaphthalene	390	U	66	J	62
Hexachlorocyclopentadiene	390	U	430	410	460
2,4,6-Trichlorophenol	390	U	430	410	460
2,4,5-Trichlorophenol	950	U	1000	U	990
2-Chloronaphthalene	390	U	430	410	460
2-Nitroaniline	950	U	1000	U	990
Dimethylphthalate	390	U	430	410	460
Acenaphthylene	390	U	53	J	47
2,6-Dinitrotoluene	390	U	430	410	460
3-Nitroaniline	950	U	1000	U	990
Acenaphthene	1300	U	430	410	460
2,4-Dinitrophenol	950	UJ	1000	UJ	990
4-Nitrophenol	2300	J	1000	UJ	990
Dibenzofuran	390	U	430	410	460
2,4-Dinitrotoluene	1400	U	430	410	460
Diethylphthalate	390	U	430	410	460
4-Chlorophenyl-phenylether	390	U	430	410	460
Fluorene	390	U	45	J	410
4-Nitroaniline	950	UJ	1000	UJ	990
4,6-Dinitro-2-methylphenol	950	U	1000	U	990
N-Nitrosodiphenylamine (1)	220	J	430	410	460
4-Bromophenyl-phenylether	390	U	430	410	460
Hexachlorobenzene	390	U	430	410	460
Pentachlorophenol	1700	U	1000	U	990
Phenanthrene	390	U	510	210	J
Anthracene	390	U	120	J	83
Carbazole	390	U	55	J	430
Di-n-butylphthalate	390	U	430	410	460
Fluoranthene	390	U	960	520	710
Pyrene	1100	U	1000	700	790
Butylbenzylphthalate	390	U	430	430	68
3,3'-Dichlorobenzidine	390	U	430	410	460
Benzo(a)anthracene	390	U	560	490	450
Chrysene	390	U	710	620	560
bis(2-Ethylhexyl)phthalate	230	J	130	J	120
Di-n-octylphthalate	390	U	430	430	410
Benzo(b)fluoranthene	390	U	640	530	470
Benzo(k)fluoranthene	390	U	540	590	420
Benzo(a)pyrene	390	U	770	820	560
Indeno(1,2,3-cd)pyrene	390	U	120	J	720
Dibenzo(a,h)anthracene	390	U	430	430	410
Benzo(g,h,i)perylene	390	U	820	930	620

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
 SDG No: EBJD1

Site: Decatur/Bardings & Speur
 Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	SBLK6A				
REGIONAL SAMPLE NUMBER:					
SAMPLE LOCATION:					
SAMPLE TYPE:	Method Blank				
MATRIX/ANALYSIS:	Soil/LOW				
DILUTION FACTOR:	1.0				
PERCENT MOISTURE:	0				
BNA					
Phenol	330	U			
bis(2-Chloroethyl)ether	330	U			
2-Chlorophenol	330	U			
1,3-Dichlorobenzene	330	U			
1,4-Dichlorobenzene	330	U			
1,2-Dichlorobenzene	330	U			
2-Methylphenol	330	U			
2,2'-oxybis(1-Chloropropane)	330	UJ			
4-Methylphenol	330	U			
N-Nitroso-di-n-propylamine	330	U			
Hexachloroethane	330	U			
Nitrobenzene	330	U			
Isophorone	330	U			
2-Nitrophenol	330	U			
2,4-Dimethylphenol	330	U			
bis(2-Chloroethoxy)methane	330	U			
2,4-Dichlorophenol	330	U			
1,2,4-Trichlorobenzene	330	U			
Naphthalene	330	U			
4-Chloroaniline	330	U			
Hexachlorobutadiene	330	U			
4-Chloro-3-methylphenol	330	U			
2-Methylnaphthalene	330	U			
Hexachlorocyclopentadiene	330	U			
2,4,6-Trichlorophenol	330	U			
2,4,5-Trichlorophenol	800	U			
2-Choronaphthalene	330	U			
2-Nitroaniline	800	U			
Dimethylphthalate	330	U			
Acenaphthylene	330	U			
2,6-Dinitrotoluene	330	U			
3-Nitroaniline	800	U			
Acenaphthene	330	U			
2,4-Dinitrophenol	800	UJ			
4-Nitrophenol	800	UJ			
Dibenzofuran	330	U			
2,4-Dinitrotoluene	330	U			
Diethylphthalate	330	U			
4-Chlorophenyl-phenylether	330	U			
Fluorene	330	U			
4-Nitroaniline	800	U			
4,6-Dinitro-2-methylphenol	800	U			
N-Nitrosodiphenylamine (1)	330	U			
4-Bromophenyl-phenylether	330	U			
Hexachlorobenzene	330	U			
Pentachlorophenol	800	U			
Phenanthrene	330	U			
Anthracene	330	U			
Carbazole	330	U			
Di-n-butylphthalate	44	J			
Fluoranthene	330	U			
Pyrene	330	U			
Butylbenzylphthalate	330	U			
3,3'-Dichlorobenzidine	330	U			
Benzo(a)anthracene	330	U			
Chrysene	330	U			
bis(2-Ethylhexyl)phthalate	330	U			
Di-n-octylphthalate	330	U			
Benzo(b)fluoranthene	330	U			
Benzo(k)fluoranthene	330	U			
Benzo(a)pyrene	330	U			
Indeno(1,2,3-cd)pyrene	330	U			
Dibenzo(a,h)anthracene	330	U			
Benzo(g,h,i)perylene	330	U			

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
 Soil units are reported in ug/Kg.

TCL ORIGINAL SPREADSHEET

Case No: 25141
SDG No: EBJD1

Site: Decatur/Bardings & Speur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJD1 X101 Routine Sample Soil/ 1.0 17	EBJD2 X102 Routine Sample Soil/ 1.0 20	EBJD3 X103 Duplicate Sample Soil/ 1.0 21	EBJD5 X105 Routine Sample Soil/ 1.0 16	EBJD5MS X105 Matrix Spike Soil/ 1.0 16
PES					
alpha-BHC	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
beta-BHC	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
delta-BHC	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
gamma-BHC (Lindane)	2.0 U	2.1 U	2.2 U	2.0 U	15 J
Heptachlor	2.0 U	2.1 U	2.2 U	2.0 U	14
Aldrin	2.0 U	2.1 U	2.2 U	2.0 U	12 J
Heptachlor epoxide	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
Endosulfan I	2.0 UJ	3.9 J	3.3 J	2.0 UJ	2.0 UJ
Dieldrin	4.0 U	4.1 U	4.2 U	3.9 U	26 J
4,4'-DDE	4.0 U	4.1 U	4.2 U	3.9 U	3.9 U
Endrin	4.0 U	4.1 U	4.2 U	3.9 U	33 J
Endosulfan II	4.0 U	4.1 U	4.2 U	3.9 U	3.9 U
4,4'-DDD	4.0 U	4.1 U	4.2 U	3.9 U	3.9 U
Endosulfan sulfate	4.0 U	4.1 U	4.2 U	3.9 U	3.9 U
4,4'-DDT	4.0 U	4.1 U	4.2 U	3.9 U	31
Methoxychlor	20 U	21 U	22 U	20 U	20 U
Endrin ketone	4.0 U	4.1 U	4.2 U	3.9 U	3.9 U
Endrin aldehyde	4.0 U	4.1 J	4.2 U	3.9 U	3.9 U
alpha-Chlordane	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
gamma-Chlordane	2.0 U	2.1 U	2.2 U	2.0 U	2.0 U
Toxaphene	200 U	210 U	220 U	200 U	200 U
Aroclor-1016	40 U	41 U	42 U	39 U	39 U
Aroclor-1221	81 U	84 U	85 U	80 U	80 U
Aroclor-1232	40 U	41 U	42 U	39 U	39 U
Aroclor-1242	40 U	41 U	42 U	39 U	39 U
Aroclor-1248	40 U	41 U	42 U	39 U	39 U
Aroclor-1254	40 U	41 U	42 U	39 U	39 U
Aroclor-1260	40 U	41 U	42 U	39 U	39 U

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL ORIGINAL SPREADSHEET

Case No: 25141
SDG No: EBJD1

Site: Decatur/Bardings & Spur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJD5MSD X105 Matrix Spike Dup Soil/ 1.0 16	EBJD6 X201 Routine Sample Soil/ 1.0 24	EBJD7 X202 Routine Sample Soil/ 1.0 24	EBJD7DL X202 Routine Sample Soil/ 2.0 24	EBJD8 X203 Routine Sample Soil/ 1.0 19	
PES						
alpha-BHC	2.0	U	2.2	U	2.2	U
beta-BHC	2.0	U	2.2	U	2.2	U
delta-BHC	2.0	U	2.2	U	2.2	U
gamma-BHC (Lindane)	18	J	2.2	U	2.2	U
Heptachlor	16		2.2	U	2.2	U
Aldrin	15	J	2.2	U	2.2	U
Heptachlor epoxide	2.0	U	2.2	U	2.2	U
Endosulfan I	2.0	UJ	9.4	UJ	11	UJ
Dieldrin	32	J	4.3	U	4.3	U
4,4'-DDE	3.9	U	4.3	U	6.7	
Endrin	41	J	4.3	U	4.3	U
Endosulfan II	3.9	U	4.3	U	4.3	U
4,4'-DDD	3.9	U	4.3	U	9.4	J
Endosulfan sulfate	3.9	U	4.3	U	4.3	U
4,4'-DDT	38		6.7		90	E
Methoxychlor	20	U	22	U	22	U
Endrin ketone	3.9	U	4.3	U	4.3	U
Endrin aldehyde	3.9	U	4.3	U	6.9	J
alpha-Chlordane	2.0	U	2.2	U	2.2	U
gamma-Chlordane	2.0	U	2.9	J	5.4	
Toxaphene	200	U	220	U	220	U
Aroclor-1016	39	U	43	U	43	U
Aroclor-1221	80	U	88	U	88	U
Aroclor-1232	39	U	43	U	43	U
Aroclor-1242	39	U	43	U	43	U
Aroclor-1248	39	U	43	U	43	U
Aroclor-1254	39	U	43	U	43	U
Aroclor-1260	39	U	43	U	43	U

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL ORIGINAL SPREADSHEET

Case No: 25141
SDG No: EBJD1

Site: Decatur/Bardings & Spaar
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER:	EBJD9	PBLK1			
REGIONAL SAMPLE NUMBER:	X204				
SAMPLE LOCATION:	Routine Sample	Method Blank			
SAMPLE TYPE:	Soil/	Soil/			
MATRIX/ANALYSIS:	1.0	1.0			
DILUTION FACTOR:					
PERCENT MOISTURE:	29	0			
PES					
alpha-BHC	2.4	U	1.7	U	
beta-BHC	2.4	U	1.7	U	
delta-BHC	2.4	U	1.7	U	
gamma-BHC (Lindane)	2.4	U	1.7	U	
Heptachlor	2.4	U	1.7	U	
Aldrin	2.4	U	1.7	U	
Heptachlor epoxide	2.4	U	1.7	U	
Endosulfan I	2.4	UJ	1.7	UJ	
Dieldrin	4.6	U	3.3	U	
4,4'-DDE	4.6	U	3.3	U	
Endrin	4.6	U	3.3	U	
Endosulfan II	4.6	U	3.3	U	
4,4'-DDD	4.6	U	3.3	U	
Endosulfan sulfate	4.6	U	3.3	U	
4,4'-DDT	4.6	U	3.3	U	
Methoxychlor	24	U	17	U	
Endrin ketone	4.6	U	3.3	U	
Endrin aldehyde	4.6	U	3.3	U	
alpha-Chlordane	3.7		1.7	U	
gamma-Chlordane	2.5		1.7	U	
Toxaphene	240	U	170	U	
Aroclor-1016	46	U	33	U	
Aroclor-1221	94	U	67	U	
Aroclor-1232	46	U	33	U	
Aroclor-1242	46	U	33	U	
Aroclor-1248	46	U	33	U	
Aroclor-1254	46	U	33	U	
Aroclor-1260	46	U	33	U	

FILE NAME: EBJD1 DATE: 01/03/97 TIME: 11:28 CADRE 2.3

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Water units are reported in ug/L.
Soil units are reported in ug/Kg.

000001

SDG NARRATIVE

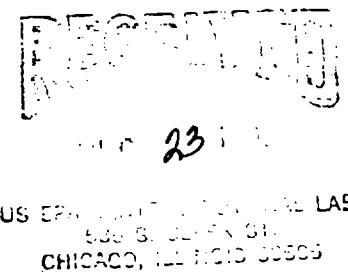
Laboratory Name: AATSLA, Baton Rouge

Case No: 25141
SDG No: EBJD1
Contract: 68-D5-0023

Eight soil samples were received 15 November 1996 for Volatile, Semivolatile, and Pesticide/PCB organic analysis utilizing USEPA's CLP SOW OLM03.1 protocol. The samples are listed below in Table 1:

TABLE 1**EPA Sample Number:**

EBJD1
EBJD2
EBJD3
EBJD5
EBJD5MS
EBJD5MSD
EBJD6
EBJD7
EBJD8
EBJD9

**Volatile Organic Analysis:**

A 75 m x 0.53 mm ID with a 3 μm film DB-624 J&W capillary column was utilized. Also a 30.5 cm Supelco Purge Trap F consisting of 1 cm 3% SP-2100, 15 cm Tenax TA, and 7.7 cm Silica gel 15 was used.

No significant problems were encountered.

All manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Semi-volatile Organic Analysis:

Listed below are alkane isomers found in the TIC search of the referenced sample:

000002

EBJD1

Branched alkane	170 $\mu\text{g}/\text{Kg}$
Cyclic alkane	220 $\mu\text{g}/\text{Kg}$
Unknown alkane	290 $\mu\text{g}/\text{Kg}$
Unknown alkane	4,300 $\mu\text{g}/\text{Kg}$

EBJD2

Unknown alkane	760 $\mu\text{g}/\text{Kg}$
Unknown alkane	3,800 $\mu\text{g}/\text{Kg}$

EBJD3

Cyclic alkane	250 $\mu\text{g}/\text{Kg}$
Branched alkane	680 $\mu\text{g}/\text{Kg}$
Cyclic alkane	240 $\mu\text{g}/\text{Kg}$
Unknown alkane	3,400 $\mu\text{g}/\text{Kg}$

EBJD5

Unknown alkane	140 $\mu\text{g}/\text{Kg}$
Unknown alkane	190 $\mu\text{g}/\text{Kg}$
Unknown alkane	180 $\mu\text{g}/\text{Kg}$
Unknown alkane	80 $\mu\text{g}/\text{Kg}$
Cyclic alkane	950 $\mu\text{g}/\text{Kg}$
Unknown alkane	190 $\mu\text{g}/\text{Kg}$
Unknown alkane	1,300 $\mu\text{g}/\text{Kg}$
Unknown alkane	490 $\mu\text{g}/\text{Kg}$
Unknown alkane	1,700 $\mu\text{g}/\text{Kg}$

EBJD6

Branched alkane	380 $\mu\text{g}/\text{Kg}$
Cyclic alkane	240 $\mu\text{g}/\text{Kg}$
Branched alkane	790 $\mu\text{g}/\text{Kg}$
Unknown alkane	89 $\mu\text{g}/\text{Kg}$
Branched alkane	240 $\mu\text{g}/\text{Kg}$
Unknown alkane	170 $\mu\text{g}/\text{Kg}$

EBJD7

Unknown alkane	530 $\mu\text{g}/\text{Kg}$
Cyclic alkane	290 $\mu\text{g}/\text{Kg}$
Branched alkane	930 $\mu\text{g}/\text{Kg}$
Unknown alkane	180 $\mu\text{g}/\text{Kg}$
Branched alkane	540 $\mu\text{g}/\text{Kg}$
Unknown alkane	1,400 $\mu\text{g}/\text{Kg}$

000002a

EBJD8

Cyclic alkane	250 $\mu\text{g}/\text{Kg}$
Unknown alkane	86 $\mu\text{g}/\text{Kg}$
Unknown alkane	100 $\mu\text{g}/\text{Kg}$
Branched alkane	220 $\mu\text{g}/\text{Kg}$
Unknown alkane	110 $\mu\text{g}/\text{Kg}$
Unknown alkane	650 $\mu\text{g}/\text{Kg}$
Unknown alkane	810 $\mu\text{g}/\text{Kg}$
Unknown alkane	2,000 $\mu\text{g}/\text{Kg}$

EBJD9

Branched alkane	380 $\mu\text{g}/\text{Kg}$
Branched alkane	660 $\mu\text{g}/\text{Kg}$
Cyclic alkane	120 $\mu\text{g}/\text{Kg}$
Unknown alkane	220 $\mu\text{g}/\text{Kg}$
Unknown alkane	940 $\mu\text{g}/\text{Kg}$
Unknown alkane	580 $\mu\text{g}/\text{Kg}$
Unknown alkane	480 $\mu\text{g}/\text{Kg}$

A 30m x 0.25 mm ID with a 0.25 μm film XTI-5 Restek capillary column was utilized.

No significant problems were encountered.

Manual integrations are represented by an "m" flag on the quantitative report. Included in the data package are graphic reports of any manual integrations which have been initialed and dated.

Pesticide/PCB Organic Analysis:

Columns used for Pesticide/PCB analysis were:

- a. RTX-35, 0.53 mm ID, 30 m length
65% dimethyl polysiloxane - 35% diphenyl, 1.5 micron thickness
- b. RTX-1701P, 0.53 mm ID, 30 m length
14% cyanopropylphenyl - 86% methyl polysiloxane, 1.5 micron thickness

Sample EBJD7 required analysis at a dilution of two. The undiluted analysis is also provided.

000002b

No significant problems were encountered.

Where manual integrations were performed, the modifications have been initialed and dated.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature."



Russell D. McNiece
GC/MS Supervisor
19 December 1996

RDM:rdm

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000111

EPA SAMPLE NO.

Lab Name: <u>AATSLA</u>	Contract: <u>68-D5-0023</u>	VBLK1S
Lab Code: <u>AATSLA</u>	Case No.: <u>25141</u>	SAS No.: _____ SDG No.: <u>EBJD1</u>
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID: <u>VBLK1S</u>	
Sample wt/vol: <u>5.0</u> (g/mL) <u>ML</u>	Lab File ID: <u>B7371</u>	
Level: (low/med) <u>LOW</u>	Date Received: _____	
% Moisture: not dec. _____	Date Analyzed: <u>11/23/96</u>	
GC Column: <u>CAP</u> ID: <u>0.530</u> (mm)	Dilution Factor: <u>1.0</u>	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)	
CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VHBLK1S

✓ Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141 SAS No.: _____ SDG No.: EBJD1

Matrix: (soil/water) WATER Lab Sample ID: VHBLK1S

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: B7373

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/23/96

GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1E

000016

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBJD1

Lab Name: AATSLAContract: 68-D5-0023Lab Code: AATSLA Case No.: 25141SAS No.: _____ SDG No.: EBJD1Matrix: (soil/water) SOILLab Sample ID: 1887301Sample wt/vol: 5.0 (g/mL) GLab File ID: P3684Level: (low/med) LOWDate Received: 11/15/96% Moisture: not dec. 17Date Analyzed: 11/22/96GC Column: CAP ID: 0.530 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

VOLATILE ORGANICS ANALYSIS DATA SHEET **000021**
 TENTATIVELY IDENTIFIED COMPOUNDS

EBJD2

b Name: AATSLAContract: 68-D5-0023Lab Code: AATSLACase No.: 25141

SAS No.: _____

SDG No.: EBJD1Matrix: (soil/water) SOILLab Sample ID: 1887302Sample wt/vol: 5.0 (g/mL) GLab File ID: P3685Level: (low/med) LOWDate Received: 11/15/96% Moisture: not dec. 20Date Analyzed: 11/22/96GC Column: CAP ID: 0.530 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	Septa bleed	17.70	10	J

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET **000027**
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJD3

Lab Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141 SAS No.: _____ SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887303

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P3686

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: not dec. 21

Date Analyzed: 11/22/96

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

000033

EPA SAMPLE NO.

b Name: <u>AATSLA</u>	Contract: <u>68-D5-0023</u>	EBJD5
Lab Code: <u>AATSLA</u>	Case No.: <u>25141</u>	SAS No.: _____ SDG No.: <u>EBJD1</u>
Matrix: (soil/water) <u>SOIL</u>	Lab Sample ID: <u>1887304</u>	
Sample wt/vol: <u>5.0</u> (g/mL) <u>G</u>	Lab File ID: <u>P3687</u>	
Level: (low/med) <u>LOW</u>	Date Received: <u>11/15/96</u>	
% Moisture: not dec. <u>16</u>	Date Analyzed: <u>11/22/96</u>	
GC Column: <u>CAP</u> ID: <u>0.530</u> (mm)	Dilution Factor: <u>1.0</u>	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)	

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBJD6

Lab Name: AATSLAContract: 68-D5-0023Lab Code: AATSLACase No.: 25141

SAS No.: _____

SDG No.: EBJD1Matrix: (soil/water) SOILLab Sample ID: 1887307Sample wt/vol: 5.0 (g/mL) GLab File ID: P3690Level: (low/med) LOWDate Received: 11/15/96% Moisture: not dec. 24Date Analyzed: 11/22/96GC Column: CAP ID: 0.530 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

000044

EPA SAMPLE NO.

EBJD7

b Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA

Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887308

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P3691

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: not dec. 24

Date Analyzed: 11/22/96

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

000049

EPA SAMPLE NO.

EBJD8

b Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141

SAS No.: _____ SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887309

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: P3692

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: not dec. 19

Date Analyzed: 11/22/96

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Septa bleed	17.00	26	J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBJD9

.b Name: AATSLAContract: 68-D5-0023Lab Code: AATSLA Case No.: 25141 SAS No.: _____ SDG No.: EBJD1Matrix: (soil/water) SOIL Lab Sample ID: 1887310Sample wt/vol: 5.0 (g/mL) G Lab File ID: P3693Level: (low/med) LOW Date Received: 11/15/96% Moisture: not dec. 29 Date Analyzed: 11/22/96GC Column: CAP ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Septa bleed	16.97	23	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK6A

Lab Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: SBLK6A

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80786

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 11/30/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1 : 0.5

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.95	250	J
2.	Aldol condensation	5.18	85	AJ
3.	Aldol condensation	5.33	110	AJ
4.	Unknown	5.55	190	J
5.	Aldol condensation	5.65	570	AJ
6.	Aldol condensation	5.85	81	AJ
7.	Aldol condensation	6.23	97	AJ
8.	Aldol condensation	6.80	170	AJ

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000126 EPA SAMPLE NO.

EBJD1

b Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141

SAS No.: _____ SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887301

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80787

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 17 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 11/30/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0 0.5

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.95	240	J
2.	Aldol condensation	5.33	180	ABJ V
3.	Aldol condensation	5.67	550	ABJ V
4.	Unknown	5.77	82	J
5.	Aldol condensation	6.22	300	ABJ Y
6.	Aldol condensation	6.72	140	AJ
7.	Aldol condensation	6.80	400	ABJ
8.	Unknown	13.27	110	J
9.	Unknown	14.40	110	J
10.	Unknown	15.87	140	J
11.	Unknown	17.35	310	J
12.	Unknown	18.02	110	J
13.	Unknown	20.27	93	J
14.	Unknown	20.68	150	J
15.	Unknown	21.47	120	J
16.	Unknown	21.55	140	J
17.	Unknown	22.35	560	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

OC0163

EPA SAMPLE NO.

EBJD2

Sample Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887302

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80788

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 11/30/96

Injection Volume: 2.0 (uL)

Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 7.9

CONCENTRATION UNITS:

Number TICs found: 14

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.93	410	J
2.	Aldol condensation	5.05	420	AJ
3.	Aldol condensation	5.33	300	AJ
4.	Unknown	5.55	290	BJ
5.	Aldol condensation	5.65	1300	ABJ
6.	Unknown	5.78	110	J
7. 3387-41-5	Bicyclo[3.1.0]hexane, 4-meth	5.93	220	JN
8.	Aldol condensation	6.22	630	AJ
9.	Aldol condensation	6.45	91	AJ
10.	Unknown	6.72	120	J
11.	Unknown	6.78	820	J
12. 832-71-3	Phenanthrene, 3-methyl-	13.18	190	JN
13. 57-10-3	Hexadecanoic acid	13.27	110	JN
14.	Unknown	22.77	350	J

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: AATSLA

Contract: 68-D5-0023

EBJD3

Lab Code: AATSLA

Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887303

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80789

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 11/30/96

Injection Volume: 2.0 (uL)

Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 7.1

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.95	330	J
2.	Aldol condensation	5.05	230	AJ
3.	Unknown	5.18	93	J
4.	Aldol condensation	5.33	280	ABJ4
5.	Aldol condensation	5.65	1100	ABJ4
6.	Unknown	5.78	100	J
7.	Aldol condensation	6.22	510	AJ
8.	Aldol condensation	6.45	140	AJ
9.	Unknown	6.72	120	J
10.	Unknown	22.37	310	J
11.	Unknown	22.77	310	J

000220

EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBJD5

b Name: AATSLA Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141 SAS No.: _____ SDG No.: EBJD1

Matrix: (soil/water) SOIL Lab Sample ID: 1887304

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 80790

Level: (low/med) LOW Date Received: 11/15/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/01/96

Injection Volume: 2.0 (uL) Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 7.5

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	4.95	170	J
2.	Unknown	5.55	140	J
3.	Aldol condensation	5.65	1200	ABJ 1/15/97
4.	Aldol condensation	6.22	730	AJ
5.	Unknown	6.72	91	J
6. 934-34-9	2(3H)-Benzothiazolone	11.50	610	JN
7.	Unknown	12.77	140	J
8. 57-10-3	Hexadecanoic acid	13.27	150	JN
9. 83-47-6	.gamma.-Sitosterol	20.68	2100	JN
10.	Unknown	21.00	940	J
11.	Unknown	21.57	190	J
12.	Unknown	22.13	170	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000752

EPA SAMPLE NO.

EBJD6

b Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA

Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887307

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80896

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 12/05/96

Injection Volume: 2.0 (uL)

Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 8.0

CONCENTRATION UNITS:

Number TICs found: 12

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	5.00	230	AJ
2.	Aldol condensation	5.58	820	ABJ li
3.	Aldol condensation	5.77	150	AJ
4.	Unknown	5.92	150	J
5.	Unknown	7.62	88	J
6.	Unknown acid	11.88	220	J
7.	Unknown	12.57	170	J
8.	Unknown	12.70	290	J
9.	Unknown	13.12	820	J
10. 57-10-3	Hexadecanoic acid	13.23	1000	JN
11.	Unknown	14.37	530	J
12.	Unknown	20.58	770	J

000386

EPA SAMPLE NO.

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EBJD7

Lab Name: AATSLAContract: 68-D5-0023Lab Code: AATSLA Case No.: 25141

SAS No.: _____

SDG No.: EBJD1Matrix: (soil/water) SOILLab Sample ID: 1887308Sample wt/vol: 30.0 (g/mL) GLab File ID: 80897Level: (low/med) LOWDate Received: 11/15/96% Moisture: 24 decanted: (Y/N) NDate Extracted: 11/21/96Concentrated Extract Volume: 500.0 (uL)Date Analyzed: 12/05/96Injection Volume: 2.0 (uL)Dilution Factor: 10.5GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	4.97	430	AJ
2.	Aldol condensation	5.58	1200	ABJ
3.	Unknown	5.72	160	J
4.	Aldol condensation	5.78	130	AJ
5.	Unknown	5.92	180	J
6.	Aldol condensation	6.40	160	AJ
7.	Unknown	6.65	220	J
8.	Unknown	11.88	120	J
9.	Unknown	12.40	160	J
10.	Unknown	12.57	90	J
11.	Unknown PAH	13.12	130	J
12.	Unknown	13.17	160	J
13. 57-10-3	Hexadecanoic acid	13.22	570	JN
14.	Unknown	13.82	420	J
15. 192-97-2	Benzo[e]pyrene	18.45	170	JN
16.	Unknown	20.58	740	J
17.	Unknown	20.97	850	J
18.	Unknown	21.47	310	J
19.	Unknown	21.75	360	J
20.	Unknown	22.23	770	J

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

000326

EBJD8

b Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887309

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80898

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 12/05/96

Injection Volume: 2.0 (uL)

Dilution Factor: 0.5

GPC Cleanup: (Y/N) Y pH: 7.8

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	4.93	710	AJ
2.	Aldol condensation	5.23	630	AJ
3.	Aldol condensation	5.58	1100	ABJ
4.	Unknown	5.72	84	J
5.	Aldol condensation	5.77	170	ABJ
6.	Unknown	5.92	140	J
7.	Aldol condensation	6.17	770	AJ
8.	Aldol condensation	6.40	180	AJ
9.	Unknown	6.65	280	J
10.	Unknown	6.73	900	J
11.	Unknown	12.47	89	J
12.	Unknown PAH	13.10	220	J
13. 57-10-3	Hexadecanoic acid	13.22	450	JN
14.	Unknown	20.58	710	J
15.	Unknown	21.47	81	J
16.	Unknown	21.75	43	J
17.	Unknown	22.05	83	J
18.	Unknown	22.23	110	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

000369

EPA SAMPLE NO.

EBJD9

o Name: AATSLA

Contract: 68-D5-0023

Lab Code: AATSLA

Case No.: 25141

SAS No.: _____

SDG No.: EBJD1

Matrix: (soil/water) SOIL

Lab Sample ID: 1887310

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 80899

Level: (low/med) LOW

Date Received: 11/15/96

% Moisture: 29 decanted: (Y/N) N

Date Extracted: 11/21/96

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 12/05/96

Injection Volume: 2.0 (uL)

Dilution Factor: 10.5

GPC Cleanup: (Y/N) Y pH: 7.7

CONCENTRATION UNITS:

Number TICs found: 27

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol condensation	4.95	480	AJ
2.	Unknown	5.47	200	BJ
3.	Aldol condensation	5.58	1200	ABJ
4.	Unknown	5.72	110	J
5.	Aldol condensation	5.78	130	ABJ
6.	Aldol condensation	6.40	180	AJ
7.	Unknown	6.65	100	J
8.	Unknown	11.87	110	J
9.	Unknown	12.40	360	J
10.	Unknown	12.57	100	J
11.	Unknown	12.70	180	J
12.	Unknown	13.12	780	J
13.	Unknown	13.17	380	J
14. 57-10-3	Hexadecanoic acid	13.22	830	JN
15.	Unknown	13.50	420	J
16.	Unknown	14.37	420	J
17.	Unknown	14.47	200	J
18.	Unknown	14.70	340	J
19.	Unknown	15.22	360	J
20.	Unknown	15.97	150	J
21.	Unknown	19.52	990	J
22.	Unknown	20.23	800	J
23. 83-47-6	.gamma.-Sitosterol	20.57	2500	JN
24.	Unknown	20.90	1900	J
25.	Unknown	21.47	610	J
26.	Unknown	21.75	320	J
27.	Unknown	22.02	630	J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 01-07-97

SUBJECT: Review of Region V CLP Data
Received for Review on Dec 23, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section /L.F.

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Decatur/Bardings & Spawr (IL)

CASE NUMBER: 25141 SDG NUMBER: MEAGL2

Number and Type of Samples: 8 (Soil)

Sample Numbers: MEAGL2-6, MEAQMO-2

Laboratory: Chemtech Hrs. for Review: 10 + 0.5 ^{use}

Following are our findings:

All data are usable (see attached narrative)

L. Frinkelberg

RECEIVED

JAN 15 1997

IEPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

Site : Decatur/Bard & Spawr

Case : 25141

Lab : Chemtech

SDG : MEAQL2

The laboratory's portion of this case contains 8 low level soil samples analyzed for total metals and total cyanide. The following narrative summarizes the out-of-control audits and their possible effect on the sample results.

Evidential Audit: The ICP raw data pages are copies; the originals may be found in case 25153, SDG # MJL308. All other forms, raw data, chain-of-custody form, airbill, and sample tags are originals. Page 171 is numbered as page 171 and 172. Cross-outs on this page and on page 173 were not dated. All other documents are present in the order as indicated on form DC-2 (inventory sheet).

ICP Analyses: The 11.7% serial dilution difference for Zn indicates interference, and all Zn data are estimated (J).

All other ICP data are acceptable.

Other Qualifiers: All mercury and cyanide data are acceptable.

Reviewed by: J. Ganz Date: 12-31-96

Page _____ of _____

DC EXCEPTION SUMMARY REPORT

CASE/SASSI/ 25141

DATA SET 1 MEANLDQ

卷之六

DATE: 12-30-96

SITE: Decatur / Burding & Spaur MATRIX: Soil
VAR: Chaintech CONS: Low

MAJOR SAMPLE SPK.
MAJOR SAMPLE DUP.

WATER SAMPLE DUP!

1

CONC: LOW

ମାତ୍ରା ପାଠୀ

SOIL SAMPLE DUMP

1

DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provided:

- U** Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J** Indicates the associated value is an estimated quantity.
- R** Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UJ** Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E** Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M** Indicates duplicate injection precision is not met.
- N** Indicates the spike sample recovery is not within control limits.
- S** Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W** Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- +** Indicates the correlation coefficient for the MSA is less than 0.995.
- *** Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166
Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2
SOW No.: ILM04.0

EPA SAMPLE NO.	Lab Sample ID.
MEAQL2	13176S
MEAQL2D	13177S2
MEAQL2S	13178DS
MEAQL3	13179S
MEAQL4	13180S
MEAQL5	13181S
MEAQL6	13182S
MEAQM0	13173S
MEAQM1	13174S
MEAQM2	13175S

RECEIVED

DEC 23 1996

US EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605.

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

The "E" qualifier on Form I and IX for the Zinc indicates a
chemical or a physical interference, which was suspected during the
Zinc analysis only.

I certify that this data package is in compliance with the terms and
conditions of the contract, both technically and for completeness, for
other than the conditions detailed above. Release of the data contained
in this hardcopy data package and in the computer-readable data submitted
on floppy diskette has been authorized by the Laboratory Manager or the
Manager's designee, as verified by the following signature.

Signature: Parveen Hasan Name: PARVEEN HASAN

Date: 12/18/96 Title: QA/QC OFFICER

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL2

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13176S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 65.4

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5600	-		P
7440-36-0	Antimony	1.5	U		P
7440-38-2	Arsenic	2.6	B		P
7440-39-3	Barium	34.8	B		P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.29	U		P
7440-70-2	Calcium	33900			P
7440-47-3	Chromium	11.6			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	14.3			P
7439-89-6	Iron	18600			P
7439-92-1	Lead	12.7			P
7439-95-4	Magnesium	18200			P
7439-96-5	Manganese	149			P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	14.2			P
7440-09-7	Potassium	1260	B		P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	281	B		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	13.4	B		P
7440-66-6	Zinc	59.1		E	P
	Cyanide	0.55	B		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL3

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13179S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 76.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5500	-		P
7440-36-0	Antimony	1.3	U		P
7440-38-2	Arsenic	2.7			P
7440-39-3	Barium	58.9			P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	0.26	U		P
7440-70-2	Calcium	9110			P
7440-47-3	Chromium	14.6			P
7440-48-4	Cobalt	2.5	B		P
7440-50-8	Copper	26.8			P
7439-89-6	Iron	10700			P
7439-92-1	Lead	29.7			P
7439-95-4	Magnesium	3880			P
7439-96-5	Manganese	303			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	13.6			P
7440-09-7	Potassium	817	B		P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	720	B		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	11.9	B		P
7440-66-6	Zinc	81.2		E	P
	Cyanide	0.45	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQL4

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13180S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 73.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13800	-		P
7440-36-0	Antimony	1.3	U		P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	126			P
7440-41-7	Beryllium	0.82	B		P
7440-43-9	Cadmium	0.27	U		P
7440-70-2	Calcium	12900			P
7440-47-3	Chromium	22.3			P
7440-48-4	Cobalt	6.7	B		P
7440-50-8	Copper	77.2			P
7439-89-6	Iron	22600			P
7439-92-1	Lead	43.2			P
7439-95-4	Magnesium	6950			P
7439-96-5	Manganese	594			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	21.7			P
7440-09-7	Potassium	2080			P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	475	B		P
7440-28-0	Thallium	2.4	U		P
7440-62-2	Vanadium	28.3			P
7440-66-6	Zinc	142	E		P
	Cyanide	0.47	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL5

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13181S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 81.1

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8960	-		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.65	B		P
7440-43-9	Cadmium	0.41	B		P
7440-70-2	Calcium	12800			P
7440-47-3	Chromium	25.5			P
7440-48-4	Cobalt	4.2	B		P
7440-50-8	Copper	74.5			P
7439-89-6	Iron	15800			P
7439-92-1	Lead	59.1			P
7439-95-4	Magnesium	5120			P
7439-96-5	Manganese	395			P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	20.3			P
7440-09-7	Potassium	1090	B		P
7782-49-2	Selenium	0.96	U		P
7440-22-4	Silver	0.50	B		P
7440-23-5	Sodium	197	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	18.3			P
7440-66-6	Zinc	193	E		P
	Cyanide	0.43	U		CA

Color Before: BLACK

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQL6

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13182S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 63.0

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8910	-		P
7440-36-0	Antimony	1.6	U		P
7440-38-2	Arsenic	31.0			P
7440-39-3	Barium	276			P
7440-41-7	Beryllium	0.60	B		P
7440-43-9	Cadmium	0.31	U		P
7440-70-2	Calcium	37800			P
7440-47-3	Chromium	15.1			P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	20.8			P
7439-89-6	Iron	67600			P
7439-92-1	Lead	22.0			P
7439-95-4	Magnesium	8830			P
7439-96-5	Manganese	1170			P
7439-97-6	Mercury	0.16	U		CV
7440-02-0	Nickel	15.7			P
7440-09-7	Potassium	1900			P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	0.62	U		P
7440-23-5	Sodium	324	B		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	20.0			P
7440-66-6	Zinc	127		E	P
	Cyanide	0.99			CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQM0

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13173S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 84.0

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400	-		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	7.9			P
7440-39-3	Barium	67.0			P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	0.23	U		P
7440-70-2	Calcium	2040			P
7440-47-3	Chromium	20.9			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	18.9			P
7439-89-6	Iron	23700			P
7439-92-1	Lead	19.2			P
7439-95-4	Magnesium	3840			P
7439-96-5	Manganese	451			P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	21.1			P
7440-09-7	Potassium	1910			P
7782-49-2	Selenium	0.93	U		P
7440-22-4	Silver	0.47	U		P
7440-23-5	Sodium	207	B		P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	29.2			P
7440-66-6	Zinc	63.0	E		P
	Cyanide	0.42	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQM1

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13174S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 78.5

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12400	-		P
7440-36-0	Antimony	1.2	U		P
7440-38-2	Arsenic	7.5			P
7440-39-3	Barium	128			P
7440-41-7	Beryllium	0.67	B		P
7440-43-9	Cadmium	0.24	U		P
7440-70-2	Calcium	10500			P
7440-47-3	Chromium	20.1			P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	18.3			P
7439-89-6	Iron	30600			P
7439-92-1	Lead	30.2			P
7439-95-4	Magnesium	7080			P
7439-96-5	Manganese	136			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	17.7			P
7440-09-7	Potassium	2280			P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.49	U		P
7440-23-5	Sodium	226	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	29.4			P
7440-66-6	Zinc	82.3	E		P
	Cyanide	0.45	B		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQM2

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Lab Sample ID: 13175S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 77.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000	-		P
7440-36-0	Antimony	1.3	U		P
7440-38-2	Arsenic	6.8			P
7440-39-3	Barium	115			P
7440-41-7	Beryllium	0.67	B		P
7440-43-9	Cadmium	0.25	U		P
7440-70-2	Calcium	5540			P
7440-47-3	Chromium	21.1			P
7440-48-4	Cobalt	5.7	B		P
7440-50-8	Copper	22.6			P
7439-89-6	Iron	29300			P
7439-92-1	Lead	37.9			P
7439-95-4	Magnesium	4630			P
7439-96-5	Manganese	124			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	17.5			P
7440-09-7	Potassium	2270			P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	213	B		P
7440-28-0	Thallium	2.3	U		P
7440-62-2	Vanadium	27.3			P
7440-66-6	Zinc	88.6	E		P
	Cyanide	0.44	U		CA

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: YELLOW

Clarity After:

Artifacts:

Comments:

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum	23.0	U	23.0	U	40.3	B	97.8	B	4.600	U	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	1.000	U	P
Arsenic	8.0	U	8.0	U	8.0	U	8.0	U	1.600	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Calcium	49.0	U	49.0	U	49.0	U	71.0	B	9.800	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
C _{alt}	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Copper	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Iron	23.0	U	23.0	U	23.0	U	33.3	B	4.600	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Magnesium	28.0	U	28.0	U	28.0	U	71.4	B	5.600	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	B	1.0	U	0.200	U	P
Potassium	39.0	U	39.0	U	39.0	U	39.0	U	7.800	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Sodium	54.0	U	54.0	U	54.0	U	54.0	U	10.800	U	P
Thallium	9.0	U	9.0	U	9.0	U	9.0	U	1.800	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Zinc	1.0	U	1.0	B	1.0	U	1.0	U	0.200	U	P
Cyanide	7.0	U	7.0	U	7.0	U	7.0	U	0.350	U	CA

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			36.4	B	68.7	B	33.9	B			P
Antimony			5.0	U	5.0	U	5.0	U			P
Arsenic			8.0	U	8.0	U	8.0	U			P
Barium			1.0	U	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			49.0	U	49.0	U	49.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
C ₆ alt			1.0	U	1.0	U	1.0	U			P
Copper			4.0	U	4.0	U	4.0	U			P
Iron			23.0	U	23.0	B	23.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			28.0	U	46.5	B	28.0	U			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			0.2	U							CV
Nickel			1.1	B	1.4	B	1.0	B			P
Potassium			39.0	U	39.0	U	39.0	U			P
Selenium			4.0	U	4.0	U	4.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			54.0	U	54.0	U	54.0	U			P
Thallium			9.0	U	9.0	U	9.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			1.0	U	1.0	U	1.0	B			P
Cyanide			7.0	U							CA

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			42.6	B	23.0	U	56.0	B			P
Antimony			5.0	U	5.0	U	5.0	U			P
Arsenic			8.0	U	8.0	U	8.0	U			P
Barium			1.0	U	1.0	U	1.0	U			P
Beryllium			1.0	U	1.0	U	1.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			52.3	B	49.0	U	49.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
Cobalt			1.0	U	1.0	U	1.0	U			P
Copper			4.0	U	4.0	U	4.0	U			P
Iron			23.0	B	23.0	U	23.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			52.4	B	28.0	U	35.2	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury											NR
Nickel			1.0	U	1.0	U	1.0	U			P
Potassium			39.0	U	39.0	U	39.0	U			P
Selenium			4.0	U	4.0	U	4.0	U			P
Silver			2.0	U	2.0	U	2.0	U			P
Sodium			54.0	U	54.0	U	54.0	U			P
Thallium			9.0	U	9.0	U	9.0	U			P
Vanadium			1.0	U	1.0	U	1.0	U			P
Zinc			1.0	U	1.0	U	1.0	U			P
Cyanide											NR

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL2S

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 65.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	148.9686	1.4562 U	149.91	99.4	P	
Arsenic	75-125	15.1826	2.6183 B	11.99	104.8	P	
Barium	75-125	623.8802	34.7983 B	599.63	98.2	P	
Beryllium	75-125	15.2545	0.4864 B	14.99	98.5	P	
Cadmium	75-125	14.2592	0.2912 U	14.99	95.1	P	
Radium							NR
Chromium	75-125	69.8957	11.6412	59.96	97.2	P	
Cobalt	75-125	144.8522	1.7766 B	149.91	95.4	P	
Copper	75-125	88.9429	14.3294	74.95	99.6	P	
Iron							NR
Lead	75-125	18.0548	12.6984	6.00	89.3	P	
Magnesium							NR
Manganese	75-125	294.4414	148.6151	149.91	97.3	P	
Mercury	75-125	0.8792	0.1529 U	0.76	115.7	CV	
Nickel	75-125	156.7068	14.1838	149.91	95.1	P	
Potassium							NR
Selenium	75-125	3.1840	1.1650 U	3.00	106.1	P	
Silver	75-125	15.1106	0.5825 U	14.99	100.8	P	
Sodium							NR
Thallium	75-125	15.2545	2.6212 U	14.99	101.8	P	
Vanadium	75-125	162.7211	13.4324 B	149.91	99.6	P	
Zinc	75-125	207.7712	59.0942	149.91	99.2	P	
Cyanide	75-125	7.8517	0.5505 B	7.65	95.4	CA	

Comments:

DUPLICATES

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL2D

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 65.4 % Solids for Duplicate: 70.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum		5599.5340	5592.6198	0.1	-	P
Antimony		1.4562 U	1.4562 U		P	P
Arsenic	2.9	2.6183 B	3.3057	23.2	P	P
Barium		34.7983 B	34.8799 B	0.2	P	P
Beryllium		0.4864 B	0.5009 B	2.9	P	P
Cadmium		0.2912 U	0.2912 U		P	P
Calcium		33877.8244	33950.9364	0.2	P	P
Chromium	2.9	11.6412	11.5334	0.9	P	P
Cobalt		1.7766 B	1.8057 B	1.6	P	P
Copper	7.3	14.3294	14.5449	1.5	P	P
Iron		18649.9432	18673.2809	0.1	P	P
Lead		12.6984	12.3839	2.5	P	P
Magnesium		18166.6375	18154.9381	0.1	P	P
Manganese		148.6151	148.6588	0.0	P	P
Mercury		0.1529 U	0.1529 U		CV	
Nickel	11.6	14.1838	14.0498	0.9	P	P
Potassium		1255.2730 B	1259.7932 B	0.4	P	P
Selenium		1.1650 U	1.1650 U		P	P
Silver		0.5825 U	0.5825 U		P	P
Sodium		280.7048 B	292.0693 B	4.0	P	P
Thallium		2.6212 U	2.6212 U		P	P
Vanadium		13.4324 B	13.1528 B	2.1	P	P
Zinc		59.0942	59.2457	0.3	P	P
Cyanide		0.5505 B	0.5887 B	6.7	CA	

ICP SERIAL DILUTIONS

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL2L

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ- ence	Q	M
Aluminum	19226.00	-	19154.35	-	0.4	-	P
Antimony	5.00	U	25.00	U		P	P
Arsenic	8.99	B	40.00	U	100.0		P
Barium	119.48	B	124.00	B	3.8	P	P
Beryllium	1.67	B	5.00	U	100.0	P	P
Cadmium	1.00	U	5.00	U		P	P
Calcium	116319.51		119835.30		3.0	P	P
Chromium	39.97		43.85	B	9.7	P	P
Cobalt	6.10	B	8.15	B	33.6	P	P
Copper	49.20		53.40	B	8.5	P	P
Iron	64034.58		67161.50		4.9	P	P
Lead	43.60		40.30		7.6	P	P
Magnesium	62375.15		63339.70		1.5	P	P
Manganese	510.27		533.40		4.5	P	P
Mercury							NR
Nickel	48.70		54.30	B	11.5	P	
Potassium	4309.98	B	4236.80	B	1.7	P	P
Selenium	4.00	U	20.00	U		P	P
Silver	2.00	U	10.00	U		P	P
Sodium	963.80	B	894.60	B	7.2	P	P
Thallium	9.00	U	45.00	U		P	P
Vanadium	46.12	B	51.80	B	12.3	P	P
Zinc	202.90		226.70		11.7	E	P

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166
 Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2
 ICP ID Number: Date: 10/15/96
 Flame AA ID Number: CN
 Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	7.0	CA

Comments:

CN: SP-E LAMBDA-1 (UV/VIS) SPECTROMETER

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

ICP ID Number:

Date: 10/15/96

Flame AA ID Number: CV

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

CV: SPECTRO-PRODUCTS MERCURY ANALYZER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

ICP ID Number:

P0

Date: 10/15/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	23.0	P
Antimony	206.80		60	5.0	P
Arsenic	189.00		10	8.0	P
Barium	493.40		200	1.0	P
Beryllium	313.00		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.90		5000	49.0	P
Chromium	267.70		10	1.0	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	4.0	P
Iron	271.40		100	23.0	P
Lead	220.40		3	2.0	P
Magnesium	279.00		5000	28.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.50		5000	39.0	P
Selenium	196.00		5	4.0	P
Silver	328.00		10	2.0	P
Sodium	588.90		5000	54.0	P
Thallium	190.90		10	9.0	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		20	1.0	P
Cyanide			10		NR

Comments:

P0: ICP 61E TRACE ANALYZER

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/25/96	1.00	50
MEAQL2	11/25/96	1.00	50
MEAQL2D	11/25/96	1.00	50
MEAQL2S	11/25/96	1.00	50
MEAQL3	11/25/96	1.02	50
MEAQL4	11/25/96	1.00	50
MEAQL5	11/25/96	1.01	50
MEAQL6	11/25/96	1.00	50
MEAQM0	11/25/96	1.00	50
MEAQM1	11/25/96	1.00	50
MEAQM2	11/25/96	1.01	50
PBS	11/25/96	1.00	50

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166
 Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQL2
 Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/04/96	0.20	100
MEAQL2	12/04/96	0.20	100
MEAQL2D	12/04/96	0.20	100
MEAQL2S	12/04/96	0.20	100
MEAQL3	12/04/96	0.20	100
MEAQL4	12/04/96	0.20	100
MEAQL5	12/04/96	0.21	100
MEAQL6	12/04/96	0.20	100
MEAQM0	12/04/96	0.21	100
MEAQM1	12/04/96	0.20	100
MEAQM2	12/04/96	0.20	100
PBS	12/04/96	0.20	100

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQL2

Method: P



United States Environmental Protection Agency
Contract Laboratory Program

**Incident Traffic Report
& Chain of Custody Record**

(For Inorganic CLP Analysis)

1. Project Code	2. Region No.	Sampling Co.	4. Date Shipped [Carrier]	SAS No. (if applicable)	Case No.
TFA-102	X	IE PA	11-14-96	97IEC1	Q5141
Regional Information			Airbill Number	5. Preservative (Enter in Column D)	
Non-Superfund Program			7585696381	1. Matrix (Enter in Column A)	1. HCl
Site Name			Chemtech Consulting Group	2. Ground Water	2. HNO3
Director/Barching & Spawr			5. Ship To	3. Leachate	3. NaOH
City, State			11 Route 4	4. Field QC	4. H2SO4
Denville, NJ			Englewood, NJ	5. Soil/Sediment	5. K2Cr2O7
Site Spill ID			ATTN: Bobby Mroyaiti	6. Oil (High only)	6. Ice only
Z				7. Waste (High only)	7. Other (Specify In Column D)
CLP Sample Numbers (from labels)				8. Other (Specify In Column A)	N. Not preserved
A	B	C	D	E - RAS Analysis	F
Matrix	Conn:	Sample Type: (from Low Box 0) Med High Other)	Preservative: (from Comp/ Grab, Box 7) None Low Med High Other)	Low only	Regional Specific Tracking Number or Tag Numbers
MEAGM4	5	G	6	X X	5-163765
MEAGM15	2	G	6	X X	5-163765
MEAGM2	3	G	6	X X	5-163767
MEAQL2	5	G	6	X X	5-163769
MEAQL3	51	G	6	X X	5-163771
MEAQL4	5	G	6	X X	5-163772
MEAQL5	5	G	6	X X	5-163773
MEAQL6	5	G	6	X X	5-163774
Glossary					
Shipment for Case Completed? (Y/N)	Page	Sample(s) to be Used for Laboratory QC		Additional Sampler Signatures	
Y	1	ME AOL2		48470 / 48471	
CHAIN OF CUSTODY RECORD					
Reliinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	
Brad Taylor	11-14-96 1400	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	
Reliinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	

NET-02-6 REV 3/98

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

EPA Form 8110-1

Print - SMO Copy
Yellow - Lab Copy for Return to SMO

12-11-96
LBB

DISTRIBUTION:
Green - Region Copy
White - Lab Copy for Return to Region

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on _____

Dec 23 1996

FROM: Stephen L. Ostroda, Chief (HSRL-5J)
Superfund Technical Support Section

for Stephen Ostroda,
Michael Z. Byrnes
1/16/97

TO: Data User: EPA

We have reviewed the data for the following case:

SITE NAME: Desatur/Barding & Spawr (1a)

CASE NUMBER: 25141 SDG NUMBER: EBJB9

Number and Type of Samples: 5 (water)

Sample Numbers: EBJB9, EBJCO-1, 3-4

Laboratory: Mitken Hrs. for Review: 8 + 1.0

Following are our findings:

The data are reliable and acceptable with the qualifications described in the attached narrative.

Michael Z. Byrnes

1/16/97

RECEIVED

JAN 21 1997

EPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

Contractor: Mitkem
Site: Decatur/Bardings & Spawr (IL)

Case: 25141
SDG: EBJB9

This case consists of 5 low concentration water samples EBJB9, EBJC0, EBJC1, EBJC3, and EBJC4. These samples were all collected on November 14, 1996 and were received by the laboratory on November 15, 1996. All samples except EBJC1 were analyzed for the volatiles, semivolatiles, and pesticide/PCB organic analytes. Sample EBJC1 was designated as a trip blank and was only analyzed for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

Sample EBJC1 was designated on the COC as a trip blank and EBJC3 as a field blank.

The reviewer's narrative and data qualifiers are noted in the following pages.

NARRATIVE

Contractor: Mitkem
Site: Decatur/Bardings & Spawr (IL)

Case: 25141
SDG: EBJB9

1.HOLDING TIMES

This case consists of 5 low concentration water samples EBJB9, EBJC0, EBJC1, EBJC3, and EBJC4. These samples were all collected on November 14, 1996 and were received by the laboratory on November 15, 1996. All samples except EBJC1 were analyzed for the volatiles, semivolatiles, and pesticide/PCB organic analytes. Sample EBJC1 was designated as a trip blank and was only analyzed for volatiles. All samples were analyzed according to CLP Low Concentration Water (OLC02.1).

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for preserved water samples; therefore, the results are acceptable. All semivolatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

2.GC/MS TUNING

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the 12 hour periods for instrument performance checks. GC Resolution Check Mixes met the 60% resolution criteria. Endrin and DDT degradation checks using PEM MIX on DB-608 and DB-1701 columns were <20%; therefore, the results are acceptable. The Florisil Cartridge Check met QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibrations of the volatile, semivolatile, and pesticide/PCBs were evaluated for the target compound list and outliers are recorded on the forms included as part of the narrative.

4.BLANKS**VOA:**

The volatile water blanks VBLK01 and VBLK02 both were found to contain the common laboratory chemicals methylene chloride and acetone. The presence of these common laboratory chemicals in the samples as well as the volatile holding blank associated with blanks VBLK01 and VBLK02, are flagged as undetected (U) if the concentration in the unspiked sample is less than ten times the blank concentration. There were no TICs found in either of these two blanks. The laboratory control sample VHBLK01 contained neither TCLs or TICs. The volatile

NARRATIVE

Contractor: Mitkem
 Site: Decatur/Barding & Spawr (IL)

Case: 25141
 SDG: EBJB9

method blank summary (Form IV VOA) lists the samples associated with these blanks.

SVOA:

SBLK01 was found to contain the common laboratory chemical ~~di-n-butylphthalate~~
bis(2-Ethylhexyl) Phthalate *12/9*
 and no TICs. The presence of the common laboratory contaminant in any sample
 associated with the blank SBLK01 is flagged as undetected (U) when the sample
 results are less than ten (10) times the blank contamination. The laboratory omitted
 the "B" qualifier in the associated samples. It was added by the reviewer. The
 semivolatile method blank summary (Form IV SVOA) lists the samples associated
 with these blanks. *11/10/97*

PESTICIDE/PCB:

The pesticide blanks PBLK01 and PBLK02 were both found to be clean. The
 pesticide/PCB blank summary (Form IV PEST) lists the samples associated with this
 blank.

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY**VOA:**

The volatile water system monitoring compounds were within the QC limits for all
 samples; therefore the results are acceptable.

SVOA:

The semivolatile water system monitoring compounds were within the QC limits for
 all samples, therefore all results are acceptable.

PESTICIDE/PCB:

The pesticide surrogates were all within QC limits for all samples; therefore the
 results are acceptable.

6. LABORATORY CONTROL SAMPLE**VOA:**

All recoveries for the volatile water samples were within QC limits; therefore, the
 results are acceptable.

SVOA:

All recoveries for the semivolatile water samples were within QC limits; except for
 N-nitrosodiphenylamine which was high. Therefore, positive hits of this compound
 in the associated samples should be considered estimated (J) and nondetects need no
 qualification.

PESTICIDE/PCB:

All recoveries for the pesticide/PCB water samples were within QC limits; therefore,
 the results are acceptable.

Reviewed by: M. Kaminsky Lockheed ESAT
 Date: January 13, 1997

NARRATIVE

Contractor: Mitkem
Site: Decatur/Bardings & Spawr (IL)

Case: 25141
SDG: EBJB9

7.FIELD BLANKS AND FIELD DUPLICATES

Sample EBJC1 was designated on the COC as a trip blank. It was found to contain 2-butanaone at 0.7 J ug/L. EBJC3 was the field blank, and for the volatile, semivolatile and pesticide/PCB fractions was found to contain no TCL or TICs.

8.INTERNAL STANDARDS

VOA:

No problems were reported.

SVOA:

No problems were reported.

9.COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and pesticide/PCB compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All CRQLs were properly reported and no dilutions were performed All target compounds were properly reported.

11.SYSTEM PERFORMANCE

GC/MS and pesticide baselines indicated acceptable performance.

12.ADDITIONAL INFORMATION

None.

Pg. 5 of 9

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS

(Page 1 of 1)

ASE/SAS #: 25141

COLUMN: RTX 6201

HEATED PURGE (Y/N):

LABORATORY: 7th floor
 SITE NAME: Deputus/Boarding

Instrument#	U2	Initial Cal.	Contin. Cal.										
Date/Time:		11/10 12:01	11/19 15:57	11/20 17:34									
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	10.01												
Bromomethane	0.10												
Vinyl chloride	0.10												
Chloroethane	0.01												
Methylene chloride	0.01												
Acetone	0.01												
Carbon disulfide	0.01												
1,1-Dichloroethene	0.10												
1,1-Dichloroethane	0.20												
cis-1,2-Dichloroethene	0.10												
trans-1,2-Dichloroethene	0.10												
Chloroform	0.20												
1,2-Dichloroethane	0.10												
2-Butanone	0.01	0.039	69.5	3	6.037	30.0	3	0.033	34.0	5			
Bromochloromethane	0.10												
1,1,1-Trichloroethane	0.10												
Carbon tetrachloride	0.10												
Bromodichloromethane	0.20												
1,2-Dichloropropane	0.01												
cis-1,3-Dichloropropene	0.20												
Trichloroethene	0.30												
bromochloromethane	0.10												
1,1,2-Trichloroethane	0.10												
Benzene	0.50												
tran-1,3-Dichloropropene	0.10												
Bromoform	0.10												
4-Methyl-2-pentanone	0.01												
2-Hexanone	0.01												
Tetrachloroethene	0.20												
1,1,2,2-Tetrachloroethane	0.50												
1,2-Dibromoethane	0.10												
Toluene	0.40												
Chlorobenzene	0.50												
Ethylbenzene	0.10												
Styrene	0.30												
Xylene (total)	0.30												
1,2-Dibromo-3-chloropropane	0.10												
1,3-Dichlorobenzene	0.60												
1,4-Dichlorobenzene	0.50												
1,2-Dichlorobenzene	0.40												
Bromofluorobenzene	0.40												
Samples affected:		UBLK01		UBLK02									
		ULCS01		UMBK01									
		EBJB9											
		FBSC 0											
		FBSC 1											
		FBSC 3											
		FBSC 4											

Reviewer's Init/Date: MK 1-7-99

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

CALIBRATION OUTLINE
Semi-volatile TCE
 (Page 1 of 2)

C SAB #: 25111
 COLUMN:

LABORATORY: Methyl
 SITE NAME: Dowell

Instrument ID:	Initial Cal.	Cont. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal.	
Date:	11-16	11-12	1129	0921					
Time:									
Phenol	0.800								
bis(2-Chloroethyl)ether	0.700								
2-Chlorophenol	0.800								
1,3-Dichlorobenzene	0.800								
1,4-Dichlorobenzene	0.500								
1,2-Dichlorobenzene	0.600								
2-Methylphenol	0.700								
2,2-oxybis(1-Chloropropane)	0.010								
4-Methylphenol	0.600								
N-Nitroso-di-n-propylamine	0.500								
Hexachloroethane	0.300								
Nitrobenzene	0.200								
Isophorone	0.400								
2-Nitrophenol	0.100								
2,6-Dimethylphenol	0.200								
bis(2-Chloroethoxy)methane	0.300								
2,6-Nitrophenol	0.200								
1,2-Dichlorobenzene	0.200								
Naphthalene	0.700								
6-Chloroniline	0.010	6217	337	5		-			
Hexachlorobutadiene	0.010								
6-Chloro-3-methylphenol	0.200								
2-Methylnaphthalene	0.400								
Hexachlorocyclopentadiene	0.010								
2,4,6-Trichlorophenol	0.200								
2,4,5-Trichlorophenol	0.200								
2-Chloronaphthalene	0.800								
2-Nitroaniline	0.010	1232	442	5					
Dimethylphthalate	0.010								
Aceraphthylene	0.900								
2,6-Dinitrotoluene	0.200								
3-Nitroaniline	0.010	0144	523	5	0012	91.7	5		
Aceraphthene	0.900								
2,4-Dinitrophenol	0.010								

Selected Samples:

SBLK01			
SLCS01			
EBJB9			
EBSC0			
EBSC3			
EBSC4			

* Minimum Relative Response Factor.

* These flags should be applied to the analytes on the sample data sheets.

#/R = All positive results are estimated "d" and non-detected results are unusable "n".

Viewer's Init/Date: MIC 1-7-97

CALIBRATION OUTLINE
Semivolatile TCE
 (Page 2 of 2)

DATE: 25/11
 MN: _____

LABORATORY: Mather
 SITE NAME: Deer Park

Instrument ID: S1	Initial Cal.	Cont. Cal.															
Date:	11-16	11-29	0526														
Time:	11:42																
	#	RF	2500	#	RF	2D	#	RF	2D	#	RF	2D	#	RF	2D	#	
6-Nitrophenol	0.010																
Dibenzofuran	0.800																
2,6-Dinitrotoluene	0.200																
Diethylphthalate	0.010																
6-Chlorophenyl-phenylether	0.400																
Fluorene	0.900																
6-Nitroaniline	0.010	0.122	36.2	5													
4,6-Dinitro-2-methylphenol	0.010																
N-nitrosodiphenylamine	0.010																
4-Bromophenyl-phenylether	0.900																
Hexachlorobenzene	0.100																
Pentachlorophenol	0.050																
Phenanthrene	0.700																
Anthracene	0.700																
Carbazole	0.010																
Di-n-butylphthalate	0.010																
Fluoranthene	0.600																
Pyr...	0.600																
Butylbenzylphthalate	0.010																
3,3'-Dichlorobenzidine	0.010	0.105			0.070	33.3	45										
Benz(a)anthracene	0.800																
Chrysene	0.700																
bis(2-Ethylhexyl)phthalate	0.010																
Di-n-octylphthalate	0.010																
Benz(b)fluoranthene	0.700																
Benz(k)fluoranthene	0.700																
Benz(a)pyrene	0.700																
Indeno(1,2,3-cd)pyrene	0.500																
Dibenz(a,h)anthracene	0.400																
Benz(g,h,i)perylene	0.500																
Nitrobenzene-d ₆	0.200																
2-Fluorobiphenyl	0.700																
Terphenyl-d ₁₂	0.500																
Phenol-d ₆	0.800																
2-Fluorophenol	0.600																
2,4,6-Tribromophenol	0.010																
2-Chlorophenol-d ₆	0.800																
1,2-Dichlorobenzene-d ₄	0.600																

Kinf: Relative Response Factor.

These kinf should be applied to the analytes on the sample data sheets.

L = All positive results are estimated "L" and non-detected results are unusable "U".

viewer's Init/Date: JK 1-7-97

CALIBRATION OUTLIER
Pesticide/PCB TCL
 (Page 1 of 1)

CASE/SAS #: CS141
 CO #: DB1701

LABORATORY: MitKem
 SITE NAME: Decatur

Instrument Number Date	Initial Cal. 1202	Cont. Cal. 1203	Cont. Cal.	Cont. Cal.	Cont. Cal.
Time	1643	6243			
	20SD	*	20	*	20
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC					
Heptachlor					
Aldrin					
Heptachlor Epoxide					
Endosulfan I					
Dieldrin					
4,4'-DDE					
Endrin					
Endosulfan II					
4,4'-DDD					
Endosulfan Sulfate					
4,4'-DDT					
Methoxychlor					
Endrin Ketone					
Endrin Aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 9260					

Affected Samples:

PBLK01			
PLCS01			
EBJB9			
EBSC0			
EBJC3			
PBLK02			
EBSC4			

* These flags should be applied to the analytes on the sample data sheets.
 J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: WC 1-197

70 / 1 / 97

CALIBRATION OUTLIER
Pesticide/PCB TCL
 (Page 1 of 3)

CASE/SAS #: 25141
 COL' "N": DB608

LABORATORY: Mt. Isa
 SITE NAME: Deakin

Instrument Number Date	Initial Cal. 1202	Cont. Cal. 1203	Cont. Cal.	Cont. Cal.	Cont. Cal.
Time	1643	0243			
	20SD	*	2D	*	2D
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC					
Kepachlor					
Aldrin					
Keptachlor Epoxide					
Endosulfan I					
Dieldrin					
4,4'-DDE					
Endrin					
Endosulfan II					
4,4'-DDD					
Endosulfan Sulfate					
4,4'-DDT					
Methoxychlor					
Endrin Ketone					
Endrin Aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Affected Samples:

PBKCO1			
PLCSO1			
EBJCB			
EBJCO			
EBJC3			
PBLKOZ			
EBJCL			

* These flags should be applied to the analytes on the sample data sheets.
 J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: MK 1-9-97

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provided:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (Note: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.
- X, Y, Z** are reserved for laboratory defined flags.



United States Environmental Protection Agency
Contract Laboratory Program

**Organic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)												Case No.	
1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped/Carrier	6. Matrix (Enter in Column A)	7. Preservative (Enter in Column D)							
Regional Information		Sampler (Name)		Airbill Number									
TFA-102		Daryl Taylor		158567414									
Non-Superfund Program		Sampler Signature <u>Daryl Taylor</u>		5. Ship To	Milwaukee Corporation 175 Mario Carter Blvd.		1. Surface Water		1. HCl				
Site Name		3. Purpose* <input checked="" type="checkbox"/> Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input checked="" type="checkbox"/> SI <input type="checkbox"/> ESI		Long-Term Action <input type="checkbox"/> FS <input checked="" type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD	ATTN: Mark Shippie		2. Ground Water		2. HNO3				
Direction / Routing of Samples:		Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED					3. Leachate		3. NaHSO4				
City, State		Site Spill ID TLC-102					4. Field QC		4. H2SO4				
CLP Sample Numbers (from labels)		A	B	C	D	E	F	G	H	I	J		
		Matrix (from Box 6)	Conc.: Low	Sample Type: Comp./Grab	Preservative (from Box 7)	RAS Analysis PCP BZB VOA PA ARO/TOX	Regional Specific Tracking Number or Tag Numbers	Station Location Identifier	Mo/Day/Year/Time Sample Collection	Corresponding CLP Inorganic Sample No.	Sampler Initials	Field QC Qualifier S = Same D = Different R = Return N = Not preserved	
EBJ89		2	L	G	I	X	5-163688-92	(6501	n-14-4-1102 (911601 54)	B.T.	-		
EBJ89		2	L	G	X	X	5-163693	(6501	11-14-4-1102 (911601 54)	B.T.	-		
EBJ89		2	L	G	X	X	5-163694	(6501	11-14-4-1102 (911601 54)	B.T.	-		
EBJ89		2	L	G	X	X	5-163695-99	(6501	11-14-4-1102 (911601 54)	B.T.	-		
EBJ89		2	L	G	X	X	5-163705	(6501	11-14-4-1102 (911601 54)	B.T.	-		
EBJ89		2	L	G	X	X	5-163701	(6501	11-14-4-1102 (911601 54)	B.T.	-		
Shipment for Case Complete? (Y/N)		Page 1 of 1	Sample(s) to be Used for Laboratory QC		Additional Sampler Signatures <u>John (d)aw</u>		Chain of Custody Seal Number(s) 484541457						
CHAIN OF CUSTODY RECORD													
Relinquished by: (Signature) <u>John Taylor</u>	Date / Time 11-14-96 / 100	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/no								

DISTRIBUTION:

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Pink - CLAS Copy

Yellow - Lab Copy for Return to Region

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV



United States Environmental Protection Agency
Contract Laboratory Program

**Clinic Traffic Report
& Chain of Custody Record**
(For Organic CLP Analysis)

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	Case No.				
Regional Information				11-14-96	Inter-Com Express	27-141				
Non-Superfund Program			Airbill Number							
Sit. Name	Sampler (Name)									
City / State / Zip	Brent Miller									
Site Spill ID	2									
City, State	TL									
CLP Sample Numbers (from labels)	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	Matrix Conc. (from Box 6) Low Med High Other	Sample Type: Presevative Comp. Grab Other	RAS Analysis Type: From Box 7 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	F Regional Specific Tracking Number or Tag Numbers	H Station Location Identifier	I Mo/Day/Year/Time Sample Collection	J Corresponding CLP Inorganic Sample No.	K Sampler Initials	L Field QC Qualifier
Shipment or Case Complete? (Y/N)	1	of 1	13111	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures <i>Brent Miller</i>	Chain of Custody Seal Number(s) 48458148459				

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
<i>Brent Miller</i>	11-14-96 1400				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none

DISTRIBUTION:

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EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

369827

SDG Narrative

The enclosed data package is submitted by Mitkem Corporation in response to USEPA Case # 25141 and SDG# EBJB9. Analyses were performed for five (5) aqueous samples that were received on November 15, 1996.

The work was performed under EPA Contract 68-D6-0063.

The following samples are submitted in this data package:

<u>Client ID</u>	<u>Analysis</u>
EBJB9	V, S, P
EBC0	V, S, P
EBC1	V
EBC3	V, S, P
EBC4	V, S, P

V = Volatile Organics

S = Semivolatile Organics

P = Pesticides/PCB

The analyses were performed using USEPA CLP Low Concentration Water (OLC02.1) protocols.

The instruments used for the analyses are as follows:

Volatile Analysis

V2 Hewlett Packard Model 5972 GC/MS with 30 m x 0.25 mm id (1.4 um film thickness) RTX-624 capillary column
Purge and Trap system fitted with an OI Molecular Sieve/Tenax/Silica three stage trap

Semivolatile Analysis

S1 Hewlett Packard Model 5972 GC/MS with 30 m x 0.25 mm id DB-5

Pesticides/PCB Analysis

ECD1 Hewlett Packard Model 5890 GC/ECD with 30 m x 0.53 mm id DB-1701 and 30 m x 0.53 mm id DB-608 megabore columns.

The analyses were performed with strict adherence to the SOW with the following exceptions and observations:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required.

All of the samples' pH were determined to be less than 2.

2. Volatile Analysis:

An OI Molecular sieve/Tenax/Silica gel trap was used for the Purge and Trap Instrument on V2. Based on the performance, the laboratory manager certified that

- the alternate trap material meets the technical acceptance criteria listed in SOW 9.3.5 and 9.4.5
- the low point initial calibration standard analysis has adequate sensitivity to meet the volatile CRQLs
- the high point initial calibration standard analysis was not overloaded
- the alternate trap material did not introduce contaminants which interfered with the identification and/or quantitation of the compounds listed in SOW Exhibit C (Volatiles)

3. Semivolatile Organic Analysis

None

4. Pesticides/PCB Analysis

None

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (diskette not submitted here) has been authorized by the laboratory manager or his designee, as verified by the following signature.



Kin S. Chiu, 12/4/96
Laboratory Manager

2LCA
LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

	EPA SAMPLE NO.	SMC1 %REC #	OTHER	TOT OUT
01	VBLK01	110	_____	0
02	VLCS01	119	_____	0
03	EBJB9	107	_____	0
04	EBJC0	113	_____	0
05	EBJC1	113	_____	0
06	EBJC3	115	_____	0
07	EBJC4	108	_____	0
08	VBLK02	114	_____	0
09	VHBLK01	116	_____	0
10	_____	_____	_____	_____
11	_____	_____	_____	_____
12	_____	_____	_____	_____
13	_____	_____	_____	_____
14	_____	_____	_____	_____
15	_____	_____	_____	_____
16	_____	_____	_____	_____
17	_____	_____	_____	_____
18	_____	_____	_____	_____
19	_____	_____	_____	_____
20	_____	_____	_____	_____
21	_____	_____	_____	_____
22	_____	_____	_____	_____
23	_____	_____	_____	_____
24	_____	_____	_____	_____
25	_____	_____	_____	_____
26	_____	_____	_____	_____
27	_____	_____	_____	_____
28	_____	_____	_____	_____
29	_____	_____	_____	_____
30	_____	_____	_____	_____

QC LIMITS

%REC

SMC1 = 4-Bromofluorobenzene (80-120)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

3LCA
LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS01

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: V2L1119A

LCS Lot No.:

Lab File ID: V2A5253

Date Analyzed: 11/19/96

Purge Volume: 25 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10 (uL)

COMPOUND	CONC ADDED (UG/L)	CONC RECOVERED (UG/L)	%REC #	QC LIMITS
Vinyl Chloride	5.00	4.98	100	60-140
1,2-Dichloroethane	5.00	5.47	109	60-140
Carbon Tetrachloride	5.00	5.21	104	60-140
1,2-Dichloropropane	5.00	5.46	109	60-140
cis-1,3-Dichloropropene	5.00	5.07	101	60-140
Trichloroethene	5.00	5.24	105	60-140
1,1,2-Trichloroethane	5.00	5.18	104	60-140
Benzene	5.00	5.44	109	60-140
Bromoform	5.00	5.20	104	60-140
Tetrachloroethene	5.00	5.17	103	60-140
1,2-Dibromoethane	5.00	5.15	103	60-140
1,4-Dichlorobenzene	5.00	5.17	103	60-140

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: _____

4LCA
LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

VBLK01

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1119A Date Analyzed: 11/19/96

Lab File ID: V2A5252 Time Analyzed: 1625

Instrument ID: V2

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01 VLCS01	V2L1119A	V2A5253	1652
02 EBJB9	C1328-01	V2A5254	1725
03 EBJC0	C1328-02	V2A5255	1753
04 EBJC1	C1328-03	V2A5256	1820
05 EBJC3	C1328-04	V2A5257	1848
06 EBJC4	C1328-05	V2A5258	1916
07			
08			
09			
10			
11			
12			
13			
14			
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28			
29			
30			

COMMENTS: _____

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4LCA
LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1120A Date Analyzed: 11/20/96

Lab File ID: V2A5282 Time Analyzed: 1802

Instrument ID: V2

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01 VHBLK01	V2B1120B	V2A5284	1929
02			
03			
04			
05			
06			
07			
08			
09			
10			
11			
12			
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COMMENTS: _____

ILCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1119A Date Received: _____

Lab File ID: V2A5252 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	0.7	J
67-64-1-----	Acetone	3	J
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
108-88-3-----	Toluene	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

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1LCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1119A Date Received: _____

Lab File ID: V2A5252 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
1.				
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27.				
28.				
29.				
30.				

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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1120A Date Received: _____

Lab File ID: V2A5282 Date Analyzed: 11/20/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	0.7	J
67-64-1-----	Acetone	2	J
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
108-88-3-----	Toluene	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1120A Date Received: _____

Lab File ID: V2A5282 Date Analyzed: 11/20/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJB9

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-01 Date Received: 11/15/96

Lab File ID: V2A5254 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (μ g/L)	Q
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74-87-3-----	Chloromethane		1 U
74-83-9-----	Bromomethane		1 U
75-01-4-----	Vinyl Chloride		1 U
75-00-3-----	Chloroethane		1 U
75-09-2-----	Methylene Chloride		1 U
67-64-1-----	Acetone		6 B
75-15-0-----	Carbon Disulfide		1 U
75-35-4-----	1,1-Dichloroethene		1 U
75-34-3-----	1,1-Dichloroethane		1 U
156-59-2-----	cis-1,2-Dichloroethene		1 U
156-60-5-----	trans-1,2-Dichloroethene		1 U
67-66-3-----	Chloroform		1 U
107-06-2-----	1,2-Dichloroethane		1 U
78-93-3-----	2-Butanone	0.8	J
74-97-5-----	Bromochloromethane		1 U
71-55-6-----	1,1,1-Trichloroethane		1 U
56-23-5-----	Carbon Tetrachloride		1 U
75-27-4-----	Bromodichloromethane		1 U
78-87-5-----	1,2-Dichloropropane		1 U
10061-01-5-----	cis-1,3-Dichloropropene		1 U
79-01-6-----	Trichloroethene		1 U
124-48-1-----	Dibromochloromethane		1 U
79-00-5-----	1,1,2-Trichloroethane		1 U
71-43-2-----	Benzene		1 U
10061-02-6-----	trans-1,3-Dichloropropene		1 U
75-25-2-----	Bromoform		1 U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
108-88-3-----	Toluene	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	171	U

ILCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJB9

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-01 Date Received: 11/15/96

Lab File ID: V2A5254 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ILCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

EBJC0

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-02 Date Received: 11/15/96

Lab File ID: V2A5255 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC1

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-03

Date Received: 11/15/96

Lab File ID: V2A5256

Date Analyzed: 11/19/96

Purge Volume: 25 (mL)

Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (μ g/L)	Q
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74-87-3-----	Chloromethane		1 U
74-83-9-----	Bromomethane		1 U
75-01-4-----	Vinyl Chloride		1 U
75-00-3-----	Chloroethane		1 U
75-09-2-----	Methylene Chloride		2 U
67-64-1-----	Acetone		54 BJU MVL 1-1-97
75-15-0-----	Carbon Disulfide		1 U
75-35-4-----	1,1-Dichloroethene		1 U
75-34-3-----	1,1-Dichloroethane		1 U
156-59-2-----	cis-1,2-Dichloroethene		1 U
156-60-5-----	trans-1,2-Dichloroethene		1 U
67-66-3-----	Chloroform		1 U
107-06-2-----	1,2-Dichloroethane		1 U
78-93-3-----	2-Butanone	0.7 J	
74-97-5-----	Bromochloromethane		1 U
71-55-6-----	1,1,1-Trichloroethane		1 U
56-23-5-----	Carbon Tetrachloride		1 U
75-27-4-----	Bromodichloromethane		1 U
78-87-5-----	1,2-Dichloropropane		1 U
10061-01-5-----	cis-1,3-Dichloropropene		1 U
79-01-6-----	Trichloroethene		1 U
124-48-1-----	Dibromochloromethane		1 U
79-00-5-----	1,1,2-Trichloroethane		1 U
71-43-2-----	Benzene		1 U
10061-02-6-----	trans-1,3-Dichloropropene		1 U
75-25-2-----	Bromoform		1 U
108-10-1-----	4-Methyl-2-Pentanone	5 U	
591-78-6-----	2-Hexanone	5 U	
127-18-4-----	Tetrachloroethene		1 U
79-34-5-----	1,1,2,2-Tetrachloroethane		1 U
108-88-3-----	Toluene		1 U
106-93-4-----	1,2-Dibromoethane		1 U
108-90-7-----	Chlorobenzene		1 U
100-41-4-----	Ethylbenzene		1 U
100-42-5-----	Styrene		1 U
1330-20-7-----	Xylene (total)		1 U
541-73-1-----	1,3-Dichlorobenzene		1 U
106-46-7-----	1,4-Dichlorobenzene		1 U
95-50-1-----	1,2-Dichlorobenzene		1 U
96-12-8-----	1,2-Dibromo-3-chloropropane		1 U
120-82-1-----	1,2,4-Trichlorobenzene		1 U

ILCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJC1

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-03 Date Received: 11/15/96

Lab File ID: V2A5256 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC3

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-04

Date Received: 11/15/96

Lab File ID: V2A5257

Date Analyzed: 11/19/96

Purge Volume: 25 (mL)

Dilution Factor: 1.0

GC Column: RTY-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (μ g/L)	Q
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74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	2	U
67-64-1-----	Acetone	5	BJJ m/n 1-7-97
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
108-88-3-----	Toluene	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

1LCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

EBJC3

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-04 Date Received: 11/15/96

Lab File ID: V2A5257 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ILCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC4

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-05

Date Received: 11/15/96

Lab File ID: V2A5258

Date Analyzed: 11/19/96

Purge Volume: 25 (mL)

Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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74-87-3-----	Chloromethane		1 U
74-83-9-----	Bromomethane		1 U
75-01-4-----	Vinyl Chloride		1 U
75-00-3-----	Chloroethane		1 U
75-09-2-----	Methylene Chloride		2 U
67-64-1-----	Acetone		53 JBv m/s 1-7-97
75-15-0-----	Carbon Disulfide		1 U
75-35-4-----	1,1-Dichloroethene		1 U
75-34-3-----	1,1-Dichloroethane		1 U
156-59-2-----	cis-1,2-Dichloroethene		1 U
156-60-5-----	trans-1,2-Dichloroethene		1 U
67-66-3-----	Chloroform		1 U
107-06-2-----	1,2-Dichloroethane		1 U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane		1 U
71-55-6-----	1,1,1-Trichloroethane		1 U
56-23-5-----	Carbon Tetrachloride		1 U
75-27-4-----	Bromodichloromethane		1 U
78-87-5-----	1,2-Dichloropropane		1 U
10061-01-5-----	cis-1,3-Dichloropropene		1 U
79-01-6-----	Trichloroethene		1 U
124-48-1-----	Dibromochloromethane		1 U
79-00-5-----	1,1,2-Trichloroethane		1 U
71-43-2-----	Benzene		1 U
10061-02-6-----	trans-1,3-Dichloropropene		1 U
75-25-2-----	Bromoform		1 U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene		1 U
79-34-5-----	1,1,2,2-Tetrachloroethane		1 U
108-88-3-----	Toluene		1 U
106-93-4-----	1,2-Dibromoethane		1 U
108-90-7-----	Chlorobenzene		1 U
100-41-4-----	Ethylbenzene		1 U
100-42-5-----	Styrene		1 U
1330-20-7-----	Xylene (total)		1 U
541-73-1-----	1,3-Dichlorobenzene		1 U
106-46-7-----	1,4-Dichlorobenzene		1 U
95-50-1-----	1,2-Dichlorobenzene		1 U
96-12-8-----	1,2-Dibromo-3-chloropropane		1 U
120-82-1-----	1,2,4-Trichlorobenzene		1 U

1LCE
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJC4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-05 Date Received: 11/15/96

Lab File ID: V2A5258 Date Analyzed: 11/19/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

b Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1120B Date Received: _____

Lab File ID: V2A5284 Date Analyzed: 11/20/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

CAS NO.	COMPOUND	CONCENTRATION (UG/L)	Q
74-87-3-----	Chloromethane	1	U
74-83-9-----	Bromomethane	1	U
75-01-4-----	Vinyl Chloride	1	U
75-00-3-----	Chloroethane	1	U
75-09-2-----	Methylene Chloride	1	U
67-64-1-----	Acetone	1	U
75-15-0-----	Carbon Disulfide	1	U
75-35-4-----	1,1-Dichloroethene	1	U
75-34-3-----	1,1-Dichloroethane	1	U
156-59-2-----	cis-1,2-Dichloroethene	1	U
156-60-5-----	trans-1,2-Dichloroethene	1	U
67-66-3-----	Chloroform	1	U
107-06-2-----	1,2-Dichloroethane	1	U
78-93-3-----	2-Butanone	5	U
74-97-5-----	Bromochloromethane	1	U
71-55-6-----	1,1,1-Trichloroethane	1	U
56-23-5-----	Carbon Tetrachloride	1	U
75-27-4-----	Bromodichloromethane	1	U
78-87-5-----	1,2-Dichloropropane	1	U
10061-01-5-----	cis-1,3-Dichloropropene	1	U
79-01-6-----	Trichloroethene	1	U
124-48-1-----	Dibromochloromethane	1	U
79-00-5-----	1,1,2-Trichloroethane	1	U
71-43-2-----	Benzene	1	U
10061-02-6-----	trans-1,3-Dichloropropene	1	U
75-25-2-----	Bromoform	1	U
108-10-1-----	4-Methyl-2-Pentanone	5	U
591-78-6-----	2-Hexanone	5	U
127-18-4-----	Tetrachloroethene	1	U
79-34-5-----	1,1,2,2-Tetrachloroethane	1	U
108-88-3-----	Toluene	1	U
106-93-4-----	1,2-Dibromoethane	1	U
108-90-7-----	Chlorobenzene	1	U
100-41-4-----	Ethylbenzene	1	U
100-42-5-----	Styrene	1	U
1330-20-7-----	Xylene (total)	1	U
541-73-1-----	1,3-Dichlorobenzene	1	U
106-46-7-----	1,4-Dichlorobenzene	1	U
95-50-1-----	1,2-Dichlorobenzene	1	U
96-12-8-----	1,2-Dibromo-3-chloropropane	1	U
120-82-1-----	1,2,4-Trichlorobenzene	1	U

20 BJ U MK -7-97

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1LCE
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

b Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: V2B1120B Date Received: _____

Lab File ID: V2A5284 Date Analyzed: 11/20/96

Purge Volume: 25 (mL) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.25 (mm) Length: 30 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (UG/L)	Q
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2LCB
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

	EPA SAMPLE NO.	2FP %REC #	PHL %REC #	NBZ %REC #	FBP %REC #	TBP %REC #	TPH %REC #	OTHER	TOT OUT
01	SBLK01	77	81	86	88	91	104	_____	0
02	SLCS01	86	88	95	92	92	100	_____	0
03	EBJB9	71	73	79	78	87	95	_____	0
04	EBJC0	81	85	92	91	88	102	_____	0
05	EBJC3	73	75	83	82	84	95	_____	0
06	EBJC4	84	86	90	89	92	104	_____	0
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QC LIMITS
%REC

2FP	= 2-Fluorophenol	(15-121)
PHL	= Phenol-d5	(15-115)
NBZ	= Nitrobenzene-d5	(23-120)
FBP	= 2-Fluorobiphenyl	(30-115)
TBP	= 2,4,6-Tribromophenol	(15-130)
TPH	= Terphenyl-d14	(18-140)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

D Surrogate diluted out.

3LCB
LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS01

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: S1119-LCS1

LCS Lot No.:

Lab File ID: S1119-L1

Date Extracted: 11/19/96

LCS Aliquot: 1000 (uL)

Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
Phenol	40.00	33.12	83	40-120
bis(2-Chloroethyl)ether	20.00	16.16	81	50-110
2-Chlorophenol	40.00	32.43	81	50-110
N-Nitroso-di-n-propylamine	20.00	17.56	88	30-110
Hexachloroethane	20.00	12.46	62	20-110
Isophorone	20.00	16.86	84	50-110
Naphthalene	20.00	16.07	80	30-110
4-Chloroaniline	40.00	16.96	42	10-120
2,4,6-Trichlorophenol	40.00	33.31	83	40-120
2,4-Dinitrotoluene	20.00	15.44	77	30-120
Diethylphthalate	20.00	17.33	87	50-120
N-Nitrosodiphenylamine (1)	20.00	24.49	122*	30-110
Hexachlorobenzene	20.00	17.88	89	40-120
Benzo(a)pyrene	20.00	14.22	71	50-120

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery: 1 outside limits out of 14 total.

MMENTS: _____

4LCB
LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: S1119-B1

Date Extracted: 10/04/96

Lab File ID: S1119-B1

Date Analyzed: 11/29/96

Instrument ID: S1

Time Analyzed : 1002

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES and LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS01	S1119-LCS1	S1119-L1	11/29/96
02	EBJB9	C1328-01	C1328-01	11/29/96
03	EBJC0	C1328-02	C1328-02	11/29/96
04	EBJC3	C1328-04	C1328-04	11/29/96
05	EBJC4	C1328-05	C1328-05	11/29/96
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COMMENTS: _____

1LCB
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: S1119-B1 Date Received: _____

Lab File ID: S1119-B1 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dinitrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

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1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: S1119-B1 Date Received: _____

Lab File ID: S1119-B1 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	2	J
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

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1LCF
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: S1119-B1 Date Received: _____

Lab File ID: S1119-B1 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCB
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJB9

Lab Name: MITKEM CORPORATION	Contract: 68-D6-0063		
Lab Code: MITKEM	Case No.: 25141	SAS No.:	SDG No.: EBJB9
Lab Sample ID: C1328-01		Date Received: 11/15/96	
Lab File ID: C1328-01		Date Extracted: 11/19/96	
Sample Volume: 1000.00 (mL)		Date Analyzed: 11/29/96	
Concentrated Extract Volume: 1000 (uL)		Dilution Factor: 1.0	
Injection Volume: 1 (uL)			

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dinitrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

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1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJB9

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-01

Date Received: 11/15/96

Lab File ID: C1328-01

Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL)

Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
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51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	1	JBU 'MK
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

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1LCF
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJB9

.b Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-01 Date Received: 11/15/96

Lab File ID: C1328-01 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCB
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC0

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-02

Date Received: 11/15/96

Lab File ID: C1328-02

Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL)

Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Choronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dinitrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC0

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-02 Date Received: 11/15/96

Lab File ID: C1328-02 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

S A JB 11/18-97

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ILCF
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJC0

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-02 Date Received: 11/15/96

Lab File ID: C1328-02 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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ILCB
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC3

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-04

Date Received: 11/15/96

Lab File ID: C1328-04

Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL)

Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Choronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dinitrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

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1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC3

b Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-04

Date Received: 11/15/96

Lab File ID: C1328-04

Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL)

Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJC3

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-04 Date Received: 11/15/96

Lab File ID: C1328-04 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCB
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-05 Date Received: 11/15/96

Lab File ID: C1328-05 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2-----	Phenol	5	U
111-44-4-----	bis(2-Chloroethyl)ether	5	U
95-57-8-----	2-Chlorophenol	5	U
95-48-7-----	2-Methylphenol	5	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5-----	4-Methylphenol	5	U
621-64-7-----	N-Nitroso-di-n-propylamine	5	U
67-72-1-----	Hexachloroethane	5	U
98-95-3-----	Nitrobenzene	5	U
78-59-1-----	Isophorone	5	U
88-75-5-----	2-Nitrophenol	5	U
105-67-9-----	2,4-Dimethylphenol	5	U
111-91-1-----	bis(2-Chloroethoxy)methane	5	U
120-83-2-----	2,4-Dichlorophenol	5	U
91-20-3-----	Naphthalene	5	U
106-47-8-----	4-Chloroaniline	5	U
87-68-3-----	Hexachlorobutadiene	5	U
59-50-7-----	4-Chloro-3-methylphenol	5	U
91-57-6-----	2-Methylnaphthalene	5	U
77-47-4-----	Hexachlorocyclopentadiene	5	U
88-06-2-----	2,4,6-Trichlorophenol	5	U
95-95-4-----	2,4,5-Trichlorophenol	20	U
91-58-7-----	2-Chloronaphthalene	5	U
88-74-4-----	2-Nitroaniline	20	U
131-11-3-----	Dimethylphthalate	5	U
208-96-8-----	Acenaphthylene	5	U
606-20-2-----	2,6-Dinitrotoluene	5	U
99-09-2-----	3-Nitroaniline	20	U
83-32-9-----	Acenaphthene	5	U

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1LCC
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC4

b Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-05 Date Received: 11/15/96

Lab File ID: C1328-05 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5-----	2,4-Dinitrophenol	20	U
100-02-7-----	4-Nitrophenol	20	U
132-64-9-----	Dibenzofuran	5	U
121-14-2-----	2,4-Dinitrotoluene	5	U
84-66-2-----	Diethylphthalate	5	U
7005-72-3-----	4-Chlorophenyl-phenylether	5	U
86-73-7-----	Fluorene	5	U
100-01-6-----	4-Nitroaniline	20	U
534-52-1-----	4,6-Dinitro-2-methylphenol	20	U
86-30-6-----	N-Nitrosodiphenylamine (1)	5	U
101-55-3-----	4-Bromophenyl-phenylether	5	U
118-74-1-----	Hexachlorobenzene	5	U
87-86-5-----	Pentachlorophenol	20	U
85-01-8-----	Phenanthrene	5	U
120-12-7-----	Anthracene	5	U
84-74-2-----	Di-n-butylphthalate	5	U
206-44-0-----	Fluoranthene	5	U
129-00-0-----	Pyrene	5	U
85-68-7-----	Butylbenzylphthalate	5	U
91-94-1-----	3,3'-Dichlorobenzidine	5	U
56-55-3-----	Benzo(a)anthracene	5	U
218-01-9-----	Chrysene	5	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	5	U
117-84-0-----	Di-n-octylphthalate	5	U
205-99-2-----	Benzo(b)fluoranthene	5	U
207-08-9-----	Benzo(k)fluoranthene	5	U
50-32-8-----	Benzo(a)pyrene	5	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	5	U
53-70-3-----	Dibenz(a,h)anthracene	5	U
191-24-2-----	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

5x J B UMK
1-8-97

1LCF
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBJC4

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: C1328-05 Date Received: 11/15/96

Lab File ID: C1328-05 Date Extracted: 11/19/96

Sample Volume: 1000.00 (mL) Date Analyzed: 11/29/96

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

GC Column(1): DB-1701

ID: 0.53 (mm)

GC Column(2): DB-608

ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK01	120	54	86	86			0
02	PLCS01	104	62	97	94			0
03	EBJB9	88	54	70	72			0
04	EBJC0	77	69	81	80			0
05	EBJC3	105	63	72	75			0
06	PBLK02	98	98	100	101			0
07	EBJC4	95	81	88	87			0
08								
09								
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11								
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29								
30								

QC LIMITS

%REC

S1 TCX = Tetrachloro-m-xylene (30-150)
 S2 DCB = Decachlorobiphenyl (30-150)

Column to be used to flag recovery values.
 * Values outside of QC limits.
 D Surrogate diluted out.

3LCC
LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS01

Lab Name: MITKEM CORPORATION Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: P1119-LCS4 LCS Lot No.:

LCS Aliquot: 0 (uL) Date Extracted: 11/19/96

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/03/96

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID(1): ECD2 GC Column(1):DB-608 ID:0.53 (mm)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.090	90	50-120
Heptachlor epoxide	0.10	0.091	91	50-150
Dieldrin	0.20	0.19	95	30-130
4,4'-DDE	0.20	0.19	95	50-150
Endrin	0.20	0.24	120	50-120
Endosulfan sulfate	0.20	0.19	95	50-120
gamma-Chlordane	0.10	0.084	84	30-130

Instrument ID(2): ECD2 GC Column(2):DB-1701 ID:0.53 (mm)

COMPOUND	CONC ADDED (ug/L)	CONC RECOVERED (ug/L)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.10	0.080	80	50-120
Heptachlor epoxide	0.10	0.085	85	50-150
Dieldrin	0.20	0.18	90	30-130
4,4'-DDE	0.20	0.18	90	50-150
Endrin	0.20	0.23	115	50-120
Endosulfan sulfate	0.20	0.18	90	50-120
gamma-Chlordane	0.10	0.082	82	30-130

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: _____

4LCC
LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Date Extracted: 11/19/96

Lab Sample ID: P1119-B3

Date Analyzed (1): 12/03/96

Date Analyzed (2): 12/03/96

Time Analyzed (1): 0443

Time Analyzed (2): 0443

Instrument ID (1): ECD2

Instrument ID (2): ECD2

GC Column (1): DB-1701 ID: 0.53 (mm)

GC Column (2): DB-608

ID: 0.53 (mm)

Sulfur Cleanup (Y/N) N

Extraction: (SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01 PLCS01	P1119-LCS4	12/03/96	12/03/96
02 EBJB9	C1328-01	12/03/96	12/03/96
03 EBJC0	C1328-02	12/03/96	12/03/96
04 EBJC3	C1328-04	12/03/96	12/03/96
05			
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COMMENTS: _____

F 1 of 1

FORM IV LCP

OLC02.0

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4LCC
LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK02

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Date Extracted: 11/19/96

Lab Sample ID: SC3A0278

Date Analyzed (1): 12/03/96

Date Analyzed (2): 12/03/96

Time Analyzed (1): 1023

Time Analyzed (2): 1023

Instrument ID (1): ECD2

Instrument ID (2): ECD2

GC Column (1): DB-1701 ID: 0.53 (mm) GC Column (2): DB-608 ID: 0.53 (mm)

Sulfur Cleanup (Y/N) N

Extraction: (SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01 EBJC4	C1328-05	12/03/96	12/03/96
02			
03			
04			
05			
06			
07			
08			
09			
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26			

COMMENTS: _____

1 of 1

FORM IV LCP

OLC02.0

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1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK01

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: P1119-B3

Date Received: _____

Sample Volume: 1000.00 (mL)

Date Extracted: 11/19/96

Concentrated Extract Volume:

2000 (uL)

Date Analyzed: 12/03/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4,4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4,4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4,4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK02

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM Case No.: 25141 SAS No.: SDG No.: EBJB9

Lab Sample ID: SC3A0278 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 11/19/96

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/03/96

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4,4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4,4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4,4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

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1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJB9

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-01

Date Received: 11/15/96

Sample Volume: 1000.00 (mL)

Date Extracted: 11/19/96

Concentrated Extract Volume:

2000 (uL)

Date Analyzed: 12/03/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4,4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4,4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4,4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC0

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-02

Date Received: 11/15/96

Sample Volume: 1000.00 (mL)

Date Extracted: 11/19/96

Concentrated Extract Volume:

2000 (uL)

Date Analyzed: 12/03/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
---------	----------	-------------------------	---

319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4, 4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4, 4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4, 4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

192

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC3

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-04

Date Received: 11/15/96

Sample Volume: 1000.00 (mL)

Date Extracted: 11/19/96

Concentrated Extract Volume:

2000 (uL)

Date Analyzed: 12/03/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4,4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4,4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4,4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

196

1LCD
LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBJC4

Lab Name: MITKEM CORPORATION

Contract: 68-D6-0063

Lab Code: MITKEM

Case No.: 25141

SAS No.:

SDG No.: EBJB9

Lab Sample ID: C1328-05

Date Received: 11/15/96

Sample Volume: 1000.00 (mL)

Date Extracted: 11/19/96

Concentrated Extract Volume:

2000 (uL)

Date Analyzed: 12/03/96

Injection Volume: 1 (uL)

Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6-----	alpha-BHC	0.01	U
319-85-7-----	beta-BHC	0.01	U
319-86-8-----	delta-BHC	0.01	U
58-89-9-----	gamma-BHC (Lindane)	0.01	U
76-44-8-----	Heptachlor	0.01	U
309-00-2-----	Aldrin	0.01	U
1024-57-3-----	Heptachlor epoxide	0.01	U
959-98-8-----	Endosulfan I	0.01	U
60-57-1-----	Dieldrin	0.02	U
72-55-9-----	4,4'-DDE	0.02	U
72-20-8-----	Endrin	0.02	U
33213-65-9-----	Endosulfan II	0.02	U
72-54-8-----	4,4'-DDD	0.02	U
1031-07-8-----	Endosulfan sulfate	0.02	U
50-29-3-----	4,4'-DDT	0.02	U
72-43-5-----	Methoxychlor	0.1	U
53494-70-5-----	Endrin ketone	0.02	U
7421-93-4-----	Endrin aldehyde	0.02	U
5103-71-9-----	alpha-Chlordane	0.01	U
5103-74-2-----	gamma-Chlordane	0.01	U
8001-35-2-----	Toxaphene	1	U
12674-11-2-----	Aroclor-1016	0.2	U
11104-28-2-----	Aroclor-1221	0.4	U
11141-16-5-----	Aroclor-1232	0.2	U
53469-21-9-----	Aroclor-1242	0.2	U
12672-29-6-----	Aroclor-1248	0.2	U
11097-69-1-----	Aroclor-1254	0.2	U
11096-82-5-----	Aroclor-1260	0.2	U

200



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 06 1997

Subject: Review of Region 5 Data for DECATUR/BARDING & SPAWR.

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To:

Attached are the results for DECATUR/BARDING & SPAWR.

CRL request number **970029**

for analyses for **Cyanide and Mercury**.

Results are reported for sample designations: 97IE01S01, 97IE01D01, 97IE01S02, and 97IE01R03.

RECEIVED
FEB 07 1997
IEPA/DLPC

Results Status:

- Acceptable for Use: **Cyanide and Mercury**
- Data Qualified, but Acceptable for use:
- Data Unacceptable for Use:
- Sewer Disposal Criteria Met;

Mercury: All portion of the above samples which were collected and submitted for mercury analysis are preserved with acid/dichromate reagents. Those samples should be disposed of in a drum. The preservative utilized is toxic.

Cyanide: Portions of all of the above samples which were collected and submitted for cyanide analyses are preserved with sodium hydroxide reagents. All the samples should be neutralized prior to disposal down the drain provided that the concentrations of other analytes are less than the laboratory detection or other controlling limits. Cyanide concentrations in those samples are below the laboratory detection limit.

Comments on Data Quality by Reviewer:

All the samples submitted for Cyanide and Mercury analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits. Cyanide and Mercury results are acceptable for use.

Comments on Sample Results:

Cyanide and Mercury concentrations in all the samples were found to be below the laboratory detection limit. Those limits are 0.008 mg/L (8 µg/L) and 0.0001 mg/L (0.1 µg/L) for Cyanide and Mercury respectively. All the samples are considered safe with respect to Cyanide and Mercury.

Comments by Laboratory Director or Quality Control Coordinator:

Franin A. Audamy

1/6/97

Review and Date

Reviewed Unreviewed

Deanne

6 Jan 97

Team Leader and Date

Reviewed Unreviewed

Chuck Elly

1/6/97

QC Coordinator and Date

Reviewed Unreviewed

Sylvia Griffin *1-6-97*

Data Management Coordinator and Date Received

Date Transmitted *1-6-97*

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CENTRAL REGIONAL LABORATORY
536 SOUTH CLARK STREET
CHICAGO, ILLINOIS 60605

Date: 'JAN 06 1997

Subject: Review of Region 5 Data for DECATUR/BARDING & SPAWR.

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

Chuck Elly

To:

Attached are the results for DECATUR/BARDING & SPAWR.

CRL request number 970029

for analyses for Cyanide and Mercury.

Results are reported for sample designations: 97IE01S01, 97IE01D01, 97IE01S02, and 97IE01R03.

Results Status:

- Acceptable for Use: Cyanide and Mercury
- Data Qualified, but Acceptable for use:
- Data Unacceptable for Use:

- Sewer Disposal Criteria Met;

Mercury: All portion of the above samples which were collected and submitted for mercury analysis are preserved with acid/dichromate reagents. Those samples should be disposed of in a drum. The preservative utilized is toxic.

Cyanide: Portions of all of the above samples which were collected and submitted for cyanide analyses are preserved with sodium hydroxide reagents. All the samples should be neutralized prior to disposal down the drain provided that the concentrations of other analytes are less than the laboratory detection or other controlling limits. Cyanide concentrations in those samples are below the laboratory detection limit.

Comments on Data Quality by Reviewer:

All the samples submitted for Cyanide and Mercury analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits. Cyanide and Mercury results are acceptable for use.

Comments on Sample Results:

Cyanide and Mercury concentrations in all the samples were found to be below the laboratory detection limit. Those limits are 0.008 mg/L (8 µg/L) and 0.0001 mg/L (0.1 µg/L) for Cyanide and Mercury respectively. All the samples are considered safe with respect to Cyanide and Mercury.

Comments by Laboratory Director or Quality Control Coordinator:

Frann A. Adams

1/6/97

Review and Date

Reviewed Unreviewed

DeLoach

6 Jan 97

Team Leader and Date

Reviewed Unreviewed

Chuck Gally

1/6/97

QC Coordinator and Date

Reviewed Unreviewed

Sylvia Griffin

1-6-97

Data Management Coordinator and Date Received

Date Transmitted

1-6-97

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

**ENVIRONMENTAL PROTECTION AGENCY
REGION V**

**CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT for the team: MINERALS-NUTRIENTS**

Report produced on: 27-NOV-96

Sample Organization: IEPA

Sample Requestor: BOB CASPER

Laboratory: ESAT

Sample Batch ID: 970029

Account No: TFA301

Facility: DECATUR/

BARDING &

SPAWR

Field: 97IE01D01

Sample: 97IE01D01

Collected: 14-NOV-96 /

Received: 15-NOV-96

Parameter	Result	(Units)	QUALIFIERS	Anal. Date	Analyst
Cyanide (Total)	8	(ug/L)	U	22-NOV-96	S. Tamm
Mercury (Total)	0.1	(ug/L)	U	25-NOV-96	Z. Lecocq

Reviewed by : M. H. Hartman 12/13/96

ENVIRONMENTAL PROTECTION AGENCY
REGION V

CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT for the team: MINERALS-NUTRIENTS

Report produced on: 27-NOV-96

Sample Organization: IEPA

Sample Requestor: BOB CASPER

Laboratory: ESAT

Sample: 97IE01R03

Collected: 14-NOV-96 /

Received: 15-NOV-96
Sample Batch ID: 970029
Account No: TFA301
Facility: DECATUR/
BARDING &
SPAWR
Field: 97IE01R03

Anal. Date

25-NOV-96

Analyst

S. Tidwell

Parameter	Result	(Units)	QUALIFIERS	Anal. Date	Analyst
Cyanide (Total)	8	(ug/L)	U	22-NOV-96	<u>S. Tidwell</u>
Mercury (Total)	0.1	(ug/L)	U	25-NOV-96	<u>Z. Turner</u>

Reviewed by : H. Hillman 11/23/96

ENVIRONMENTAL PROTECTION AGENCY
REGION V

FINAL RESULT REPORT for the team: MINERALS-NUTRIENTS

Report produced on: 27-NOV-96

Sample Organization: IEPA
Sample Requestor: BOB CASPER
Laboratory: ESAT

Sample Batch ID: 970029
Account No: TFA301
Facility: DECATUR/
BARDING &
SPAWR

Sample: 97IE01801

Collected: 14-NOV-96 /

Received: 15-NOV-96

Parameter	Result	(Units)	QUALIFIERS	Anal. Date	Analyst
Cyanide (Total)	8	(ug/L)	U	22-NOV-96	<u>G. Tidwell</u>
Mercury (Total)	0.1	(ug/L)	U	25-NOV-96	<u>Z. Koenig</u>

Reviewed by : Henry H. Koenig 11/13/96

ENVIRONMENTAL PROTECTION AGENCY
REGION V

CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT for the team: MINERALS-NUTRIENTS

Report produced on: 27-NOV-96

Sample Organization: IEPA

Sample Requestor: BOB CASPER

Laboratory: ESAT

Sample Batch ID: 970029

Account NO: TFA301

Facility: DECATUR/

BARDING &

SPAWR

Field: 97IE01802

Sample: 97IE01802

Collected: 14-NOV-96 /

Received: 15-NOV-96

Parameter	Result	(Units)	QUALIFIERS	Anal. Date	Analyst
Cyanide (Total)	8	(ug/L)	U	22-NOV-96	<u>G. John</u>
Mercury (Total)	0.1	(ug/L)	U	25-NOV-96	<u>Z. Jones</u>

Reviewed by : Mineral Nutrients 14/12/96



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

NOV 26 1996

Date:

Subject: Review of Region 5 Data for Decatur/Bardig & Spawr Code:ZZ

From: Charles T. Elly, Director *Chuck Elly*
Region 5 Central Regional Laboratory

To: *IEPA*

RECEIVED
NOV 2 1996
IEPA/DLPC

Attached are the results for Decatur/Bardig & Spawr Code:ZZ

CRL request number 970029

for analyses for ICP

Results are reported for sample designations: 97IE01S01, 97IE01D01, 97IE01S02 and 97IE01R03

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

(x) Sewer Disposal Criteria Met; Exceptions: Acid preserved samples must be neutralized prior to disposal. Sample 97IE01S02 exceeds the disposal criterion for iron.

Comments on Data Quality by Reviewer

Field duplicate 97IE01D01 looks more like sample 97IE01S02 than sample 97IE01S01, and this was confirmed by an analysis of undigested aliquots. The station identifiers for the three samples are all different. Aluminum may be biased low, as the blanks showed a negative bias. An estimate of the low bias would be on the order of the detection limit of 80 $\mu\text{g Al/L}$.

Comments by Laboratory Director or Quality Control Coordinator

~~John v. Moon~~ 26 Nov 96
Peer Task Monitor Review and Date () Reviewed () Unreviewed

~~John v. Moon~~ 26 Nov 96
Team Leader and Date () Reviewed () Unreviewed

~~Chuck Eddy~~ 11/26/96
QC Coordinator and Date () Reviewed () Unreviewed
(position vacant)

~~Sylvia Griffin~~ NOV 26 1996
Data Management Coordinator and Date Received

Date Transmitted NOV 26 1996

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

EPA RLIMS CRL - REGION V
 FINAL RESULTS REPORT
 REPORT PRODUCED ON: 20-NOV-96

SAMPLE ORGANIZATION: IEPA
 PLE REQUESTOR: BOB CASPER
 LABORATORY: ESAT

SAMPLE BATCH ID: 970029
 ACCOUNT NO: TFA301
 FACILITY: DECATUR/
 BARDING &
 SPAWR

SAMPLE: 97IE01D01 FIELD: 97IE01D01

COLLECTED: 14-NOV-96

RECEIVED: 15-NOV-96 ANALYZED: 18-NOV-96

COMPOUND	AMOUNT	(Units)	QUALIFIERS	CAS NUMBER
Aluminum	282	(ug/L)		7429-90-5
Barium	84	(ug/L)		7440-39-3
Beryllium	1U	(ug/L)	BDL	7440-41-7
Calcium	120000	(ug/L)		7440-70-2
Chromium	10U	(ug/L)	BDL	7440-47-3
Cobalt	6U	(ug/L)	BDL	7440-48-4
Copper	9.5	(ug/L)		7440-50-8
Iron	1350	(ug/L)		7439-89-6
Magnesium	61200	(ug/L)		7439-95-4
Manganese	83	(ug/L)		7439-96-5
Nickel	20U	(ug/L)	BDL	7440-02-0
Potassium	5000U	(ug/L)	BDL	7440-09-7
Silver	6U	(ug/L)	BDL	7440-22-4
Sodium	13800	(ug/L)		7440-23-5
Vanadium	5U	(ug/L)	BDL	7440-62-2
Zinc	40U	(ug/L)	BDL	7440-66-6

ANALYZED BY: JK

11-30-96

11-
26 Nov 96

EPA RLIMS CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 20-NOV-96

SAMPLE ORGANIZATION: IEPA
SAMPLE REQUESTOR: BOB CASPER
LABORATORY: ESAT

SAMPLE BATCH ID: 970029
ACCOUNT NO: TFA301
FACILITY: DECATUR/
BARDING &
SPAWR

SAMPLE: 97IE01R03 FIELD: 97IE01R03

COLLECTED: 14-NOV-96

RECEIVED: 15-NOV-96 ANALYZED: 18-NOV-96

COMPOUND	AMOUNT	(Units)	QUALIFIERS	CAS NUMBER
Aluminum	80U	(ug/L)	BDL	7429-90-5
Barium	6U	(ug/L)	BDL	7440-39-3
Beryllium	1U	(ug/L)	BDL	7440-41-7
Calcium	500U	(ug/L)	BDL	7440-70-2
Chromium	10U	(ug/L)	BDL	7440-47-3
Cobalt	6U	(ug/L)	BDL	7440-48-4
Copper	6U	(ug/L)	BDL	7440-50-8
Iron	80U	(ug/L)	BDL	7439-89-6
Magnesium	100U	(ug/L)	BDL	7439-95-4
Manganese	5U	(ug/L)	BDL	7439-96-5
Nickel	20U	(ug/L)	BDL	7440-02-0
Potassium	5000U	(ug/L)	BDL	7440-09-7
Silver	6U	(ug/L)	BDL	7440-22-4
Sodium	1000U	(ug/L)	BDL	7440-23-5
Vanadium	5U	(ug/L)	BDL	7440-62-2
Zinc	40U	(ug/L)	BDL	7440-66-6

ANALYZED BY: PT

11-20-96

JMM
26 Nov 96

EPA RLIMS CRL - REGION V
 FINAL RESULTS REPORT
 REPORT PRODUCED ON: 20-NOV-96

PLE ORGANIZATION: IEPA
 SAMPLE REQUESTOR: BOB CASPER
 LABORATORY: ESAT

SAMPLE BATCH ID: 970029
 ACCOUNT NO: TFA301
 FACILITY: DECATUR/
 BARDING &
 SPAWR

SAMPLE: 97IE01S01 FIELD: 97IE01S01

COLLECTED: 14-NOV-96 RECEIVED: 15-NOV-96 ANALYZED: 18-NOV-96

COMPOUND	AMOUNT	(Units)	QUALIFIERS	CAS NUMBER
Aluminum	80U	(ug/L)	BDL	7429-90-5
Barium	125	(ug/L)		7440-39-3
Beryllium	1U	(ug/L)	BDL	7440-41-7
Calcium	87800	(ug/L)		7440-70-2
Chromium	10U	(ug/L)	BDL	7440-47-3
Cobalt	6U	(ug/L)	BDL	7440-48-4
Copper	6	(ug/L)		7440-50-8
Iron	2730	(ug/L)		7439-89-6
Magnesium	41600	(ug/L)		7439-95-4
Manganese	72	(ug/L)		7439-96-5
Nickel	20U	(ug/L)	BDL	7440-02-0
Potassium	5000U	(ug/L)	BDL	7440-09-7
Silver	6U	(ug/L)	BDL	7440-22-4
Sodium	15200	(ug/L)		7440-23-5
Vanadium	5U	(ug/L)	BDL	7440-62-2
Zinc	40U	(ug/L)	BDL	7440-66-6

ANALYZED BY: PK 11-30-96

JM
 26 Nov 96

EPA RLIMS CRL - REGION V
 FINAL RESULTS REPORT
 REPORT PRODUCED ON: 20-NOV-96

SAMPLE ORGANIZATION: IEPA
 SAMPLE REQUESTOR: BOB CASPER
 LABORATORY: ESAT

SAMPLE BATCH ID: 970029
 ACCOUNT NO: TFA301
 FACILITY: DECATUR/
 BARDING &
 SPAWR

SAMPLE: 97IE01S02 FIELD: 97IE01S02

COLLECTED: 14-NOV-96

RECEIVED: 15-NOV-96 ANALYZED: 18-NOV-96

COMPOUND	AMOUNT	(Units)	QUALIFIERS	CAS NUMBER
Aluminum	227	(ug/L)		7429-90-5
Barium	84	(ug/L)		7440-39-3
Beryllium	1U	(ug/L)	BDL	7440-41-7
Calcium	120000	(ug/L)		7440-70-2
Chromium	10U	(ug/L)	BDL	7440-47-3
Cobalt	6U	(ug/L)	BDL	7440-48-4
Copper	8.1	(ug/L)		7440-50-8
Iron	1320	(ug/L)		7439-89-6
Magnesium	61000	(ug/L)		7439-95-4
Manganese	85	(ug/L)		7439-96-5
Nickel	20U	(ug/L)	BDL	7440-02-0
Potassium	5000U	(ug/L)	BDL	7440-09-7
Silver	6U	(ug/L)	BDL	7440-22-4
Sodium	14200	(ug/L)		7440-23-5
Vanadium	5U	(ug/L)	BDL	7440-62-2
Zinc	40U	(ug/L)	BDL	7440-66-6

ANALYZED BY: JFM 11-20-96

JFM
26 NOV-96



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: NOV 27 1996

Subject: Review of Region 5 Data for Decatur/Bardings & Spawr Code:ZZ

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: IFTA

RECEIVED
LCL 112 1996
IEPA/ADLPC

Attached are the results for Decatur/Bardings & Spawr Code:ZZ

CRL request number 970029

for analyses for Antimony, Arsenic, Cadmium, Lead, Selenium and Thallium

Results are reported for sample designations: 97IE01S01, 97IE01D01, 97IE01S02 and 97IE01R03

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

(x) Sewer Disposal Criteria Met; Exceptions: Acid preserved samples must be neutralized prior to disposal. As noted on the ICP report, sample 97IE01S02 exceeds the disposal criterion for iron.

Comments on Data Quality by Reviewer

As noted on the ICP report, field duplicate 97IE01D01 looks more like sample 97IE01S02 than sample 97IE01S01. The pattern hold true for the AA analyses. All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

J. V. Moore

27 Nov 96

Peer/Task Monitor Review and Date () Reviewed () Unreviewed

J. V. Moore

27 Nov 96

Team Leader and Date () Reviewed () Unreviewed

QC Coordinator and Date

() Reviewed () Unreviewed

(position vacant)

Sylvia Griffin Data Management Coordinator and Date Received

NOV 27 1996

Date Transmitted NOV 27 1996

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY

Single Analyte Result Report, produced on: 25-NOV-96

Sample organization: IEPA
Sample Requestor: BOB CASPER
Facility: DECATUR/BARDING & SPAWR
Matrix: WATER
Date Collected: 14-NOV-96

Sample Batch ID: 970029
Account No: TFA301
Sample ID: 97IE01D01
Units: ug/L
Date Received: 15-NOV-96

Parameter	Result	Anal. Date	Analyst	Comments
Antimony	1U	20-NOV-96	<u>Z. Lee</u>	
Arsenic Concentration	2U	20-NOV-96	<u>B. Ufner</u>	
Cadmium Concentration	0.2U	18-NOV-96	<u>B. Ufner</u>	
Lead Concentration	4	20-NOV-96	<u>B. Ufner</u>	
Selenium Concentration	2U	20-NOV-96	<u>B. Ufner</u>	
Thallium Concentration	2U	25-NOV-96	<u>B. Ufner</u>	

Team Leader: John W. Casper

**ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY**

Single Analyte Result Report, produced on: 25-NOV-96

Sample organization: IEPA
Sample Requestor: BOB CASPER
Location: DECATUR/BARDING & SPAWR
Matrix: WATER
Date Collected: 14-NOV-96

Sample Batch ID: 970029
Account No: TFA301
Sample ID: 97IE01R03
Units: ug/L
Date Received: 15-NOV-96

Parameter	Result	Anal. Date	Analyst	Comments
Antimony	1U	20-NOV-96	Z. L.	
Arsenic Concentration	2U	20-NOV-96	B. U.	
Cadmium Concentration	0.2U	18-NOV-96	B. U.	
Lead Concentration	2U	20-NOV-96	B. U.	
Selenium Concentration	2U	20-NOV-96	B. U.	
Thallium Concentration	2U	25-NOV-96	B. U.	

Team Leader: JM 12/1-96

**ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY**

Single Analyte Result Report, produced on: 25-NOV-96

Sample organization: IEPA
Sampling Representative: BOB CASPER
Locality: DECATUR/BARDING & SPAWR
Matrix: WATER
Site Collected: 14-NOV-96
Sample Batch ID: 970029
Account No.: TFA301
Sample ID: 97IE01S01
Unit: ug/L
Date Received: 15-NOV-96

Parameter	Result	Anal. Date	Analyst	Comments
Antimony	1U	20-NOV-96	Z. H.	
Arsenic Concentration	2U	20-NOV-96	B. Ufer	
Cadmium Concentration	0.2U	18-NOV-96	B. Ufer	
Lead Concentration	2U	18-NOV-96	B. Ufer	
Selenium Concentration	2U	20-NOV-96	B. Ufer	
Thallium Concentration	2U	25-NOV-96	B. Ufer	

Team Leader: Jamie L. Fifer

**ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY**

Single Analyte Result Report, produced on: 25-NOV-96

Sample organization: IEPRA
Sample Requestor: DOB CASPER
Analytical Facility: DECATUR/BARDING & SPAWR
Matrix:WATER
Date Collected:14-NOV-96

Sample Batch ID: 970029
Account #: TFA301
Sample ID: 97IE01S02
Unit: ug/L
Date Received: 15-NOV-96

Parameter	Result	Anal. Date	Analyst	Comments
Antimony	1U	20-NOV-96	S. Zee	
Arsenic Concentration	2U	20-NOV-96	B. Ufum	
Cadmium Concentration	0.2U	18-NOV-96	B. Ufum	
Lead Concentration	4	20-NOV-96	B. Ufum	
Selenium Concentration	2U	20-NOV-96	B. Ufum	
Thallium Concentration	2U	25-NOV-96	B. Ufum	

Team Leader: Jean P. Ufum

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: January 7, 1997
SUBJECT: Review of Data
Received for Review on December 23, 1996
FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section
TO: Data User: IEPA

*Patricia J Scott for
Steve Ostrodka
01/15/97*

We have reviewed the data for the following case:

SITE NAME: Decatur/Bardings & Spaur (IL)

CASE NUMBER: 25141 SDG NUMBER: EBCJ5

Number and Type of Samples: 1 Water

Sample Numbers: EBCJ5-8

Laboratory: ATAS Hrs. for Review: 10+1

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia J Scott

RECEIVED

JAN 7 1997

IEPA/DLPC

CC: Brian Freeman
Region 5 TPO
Mail Code: SM-5J

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Four (4) Water samples, numbered EBJC5 through EBJC8 were collected on November 13 and 14, 1996. The lab received the samples on November 14⁹ 1996 in good condition. All samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW OLM03.2 3/90.

Reviewed By: Ziyad A. Rajabi
Date: January 7, 1997

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

1. HOLDING TIME

No problems found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

4-Methyl-2-Pentanone, 2-Hexanone
EBJC5, EBJC5MS, EBJC5MSD, EBJC6, EBJC7, VBLK1S

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

4-Methyl-2-Pentanone,
EBJC8, VBLK1T, VBLK1U, VHBLK1U

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Acetone, 2-Butanone, Bromoform, 4-Methyl-2-Pentanone,
2-Hexanone, 1,1,2,2-Tetrachloroethane
EBJC8, VBLK1T

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)
EBJC5, EBJC5MS, EBJC5MSD, EBJC6, EBJC8

Reviewed By: Ziyad A. Rajabi
Date: January 7, 1997

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

2,4-Dinitrophenol, 4-Nitrophenol

EBCJC5, EBJC5MS, EBJC5MSD, EBJC6, EBJC8, SBLK6P

4-Nitroaniline

SBLK6P

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

EBCJC8

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate

EBCJC5, EBJC6, EBJC8

The following semivolatile samples have Tentatively Identified Compound concentration less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been qualified "U".

EBCJC8

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

01/15/97
The following semivolatile sample has surrogate percent recovery outside the lower limit of the criteria window, but greater than 10%. Hits and non-detects are not qualified, ~~however~~

The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window, but greater than 10%. Hits are qualified "J" and non-detects are

Reviewed By: Ziyad A. Rajabi

Date: January 7, 1997

Case Number : 25141
Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1
Laboratory: ATAS

qualified "UJ". Results are biased low.

EBCJC6, EBCJC8

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Hits in the original unspiked sample "EBCJC5" are qualified "J" and non-detects are qualified "UJ".

EBCJC5MS, EBCJC5MSD
Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits in the original unspiked sample "EBCJC5" are qualified "J" and non-detects are qualified "UJ".

EBCJC5MS
Pyrene

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Hits in the original unspiked sample "EBCJC5" are qualified "J" and non-detects are qualified "UJ".

EBCJC5MS, EBCJC5MSD
gamma-BHC (Lindane), Heptachlor, Dieldrin, Endrin

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits in the original unspiked sample "EBCJC5" are qualified "J" and non-detects are qualified "UJ".

EBCJC5MSD
Endrin

7. FIELD BLANK AND FIELD DUPLICATE

Sample EBCJC7 is a field blank. Sample EBCJC8 is a field duplicate of Sample EBCJC6. Results are not qualified based

Reviewed By: Ziyad A. Rajabi
Date: January 7, 1997

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations ^{and semivolatile} below the quantitation limit (CRQL). All results below the CRQL are qualified "J". *Q/S 01/15/97*

EBCJC5MSD

Carbon Tetrachloride

EBCJC6

4-Methyl-2-Pentanone, 1,1,2,2-Tetrachloroethane,
Chlorobenzene, Xylene (total)

EBCJC8

Benzene, Xylene (total)

VBLK1T

Methylene Chloride

EBCJC6

1,4-Dichlorobenzene, Naphthalene, Diethylphthalate

EBCJC8

1,4-Dichlorobenzene, Naphthalene, Diethylphthalate,
N-Nitrosodiphenylamine, Di-n-butylphthalate

SBLK6P

bis(2-Ethylhexyl)phthalate

Reviewed By: Ziyad A. Rajabi
Date: January 7, 1997

Case Number : 25141

Site Name: Decatur/Bardings & Spaur (IL)

SDG Number: EBJD1

Laboratory: ATAS

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

None.

Reviewed By: Ziyad A. Rajabi
Date: January 7, 1997

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- | | |
|----|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample. |
| UJ | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N | The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification. |
| NJ | The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration. |
| R | The data are unusable. (The compound may or may not be present) |
| H | Sample result is estimated and biased high. |
| L | Sample result is estimated and biased low. |

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJC5

Site: Decatur/Brading & Speur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJC5 G101 Routine Sample Water/LOW 1.0	EBJCSMS Matrix Spike Water/LOW 1.0	EBJCSMSD Matrix Spike Dup Water/LOW 1.0	EBJC6 G102 Routine Sample Water/LOW 1.0	EBJC7 TB Routine Sample Water/LOW 1.0
VOA					
Chloromethane	10 U	50	60	10 U	10 U
Bromomethane	10 U	52	56	10 U	10 U
Vinyl Chloride	10 U	50	56	10 U	10 U
Chloroethane	10 U	53	58	10 U	10 U
Methylene Chloride	10 U	51	54	10 U	10 U
Acetone	10 U	47	58	10 U	10 U
Carbon Disulfide	10 U	51	56	10 U	10 U
1,1-Dichloroethene	10 U	51	55	10 U	10 U
1,1-Dichloroethane	10 U	54	58	10 U	10 U
1,2-Dichloroethene (total)	10 U	51	55	10 U	10 U
Chloroform	10 U	52	56	10 U	10 U
1,2-Dichloroethane	10 U	51	57	10 U	10 U
2-Butanone	10 U	42	50	10 U	10 U
1,1,1-Trichloroethane	10 U	51	53	10 U	10 U
Carbon Tetrachloride	10 U	50	7 J	10 U	10 U
Bromodichloromethane	10 U	49	66	10 U	10 U
1,2-Dichloropropane	10 U	50	54	10 U	10 U
cis-1,3-Dichloropropene	10 U	46	49	10 U	10 U
Trichloroethene	10 U	49	53	10 U	10 U
Dibromochloromethane	10 U	48	52	10 U	10 U
1,1,2-Trichloroethane	10 U	47	52	10 U	10 U
Benzene	10 U	50	54	11 U	10 U
trans-1,3-Dichloropropene	10 U	53	55	10 U	10 U
Bromoform	10 U	47	52	10 U	10 U
4-Methyl-2-Pentanone	10 UJ	38 J	47 J	8 J	10 UJ
2-Hexanone	10 UJ	37 J	50 J	10 J	10 UJ
Tetrachloroethene	10 U	49	52	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	44	51	3 J	10 U
Toluene	10 U	51	55	10 U	10 U
Chlorobenzene	10 U	49	54	9 J	10 U
Ethylbenzene	10 U	50	55	10 U	10 U
Styrene	10 U	48	57	10 U	10 U
Xylene (total)	10 U	140	160	3 J	10 U

FILE NAME: EBJC5 DATE: 01/07/97 TIME: 09:18 CADRE 2.3

PAGE: 1

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
 SDG No: EBJCS

Site: Decatur/Brading & Speur
 Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJCS G103 Routine Sample Water/LOW 1.0	VBLK1S Method Blank Water/LOW 1.0	VBLK1T Method Blank Water/LOW 1.0	VBLK1U Method Blank Water/LOW 1.0	VHBLK1U Storage Blank Water/LOW 1.0
VOA					
Chloromethane	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	3 J	10 U	10 U
Acetone	10 UJ	10 U	10 UJ	10 U	10 U
Carbon Disulfide	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U
2-Butanone	10 UJ	10 U	10 UJ	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropene	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U
Benzene	9 J	10 U	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U	10 U	10 U
Bromoform	10 UJ	10 U	10 UJ	10 U	10 U
4-Methyl-2-Pentanone	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 UJ	10 U	10 UJ	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U
Xylene (total)	3 J	10 U	10 U	10 U	10 U

FILE NAME: EBJCS DATE: 01/07/97 TIME: 09:18 CADRE 2.3

PAGE: 2

Water units are reported in ug/L.
 Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJCSSite: Decatur/Brading & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJCS G101 Routine Sample Water/LOW 1.0	EBJCSMS Matrix Spike Water/LOW 1.0	EBJCSMSD Matrix Spike Dup Water/LOW 1.0	EBJC6 G102 Routine Sample Water/LOW 1.0	EBJC8 G103 Routine Sample Water/LOW 1.0	
BMA						
Phenol	10	U	39	48	10	U
bis(2-Chloroethyl)ether	10	U	10	U	10	U
2-Chlorophenol	10	U	45	56	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	32	38	5	J
1,2-Dichlorobenzene	10	U	10	U	10	U
2-Methylphenol	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	UJ	10	UJ	10	UJ
4-Methylphenol	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	38	45	10	U
Hexachloroethane	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U
1,2,4-Trichlorobenzene	10	U	31	38	10	U
Naphthalene	10	U	10	U	9	J
4-Chloroniline	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	41	53	10	U
2-Methylnaphthalene	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U
2-Chloronaphthalene	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U
Acenaphthene	10	U	28	34	10	U
2,4-Dinitrophenol	25	UJ	25	UJ	25	UJ
4-Nitrophenol	25	UJ	46	J	25	UJ
Dibenzofuran	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	29	35	10	U
Diethylphthalate	10	U	10	U	2	J
4-Chlorophenyl-phenylether	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U
4-Nitroaniline	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U
N-Nitrosodiphenylamine (1)	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U
Pentachlorophenol	25	U	45	58	25	U
Phenanthrene	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U
Di-n-butylphthalate	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U
Pyrene	10	UJ	12	19	10	U
Butylbenzylphthalate	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	10	U	10	U
Di-n-octylphthalate	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U
Dibenz(a,h)anthracene	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	10	U

FILE NAME: EBJCS DATE: 01/07/97 TIME: 09:18 CADRE 2.3

PAGE: 3

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25141
SDG No: EBJS5Site: Decatur/Brading & Spaur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	SBLK6P				
BNA	Method Blank				
Phenol	10	U			
bis(2-Chloroethyl)ether	10	U			
2-Chlorophenol	10	U			
1,3-Dichlorobenzene	10	U			
1,4-Dichlorobenzene	10	U			
1,2-Dichlorobenzene	10	U			
2-Methylphenol	10	U			
2,2'-oxybis(1-Chloropropane)	10	U			
4-Methylphenol	10	U			
N-Nitroso-di-n-propylamine	10	U			
Hexachloroethane	10	U			
Nitrobenzene	10	U			
Isophorone	10	U			
2-Nitrophenol	10	U			
2,4-Dimethylphenol	10	U			
bis(2-Chloroethoxy)methane	10	U			
2,4-Dichlorophenol	10	U			
1,2,4-Trichlorobenzene	10	U			
Naphthalene	10	U			
4-Chloroaniline	10	U			
Hexachlorobutadiene	10	U			
4-Chloro-3-methylphenol	10	U			
2-Methylnaphthalene	10	U			
Hexachlorocyclopentadiene	10	U			
2,4,6-Trichlorophenol	10	U			
2,4,5-Trichlorophenol	25	U			
2-Chloronaphthalene	10	U			
2-Nitroaniline	25	U			
Dimethylphthalate	10	U			
Acenaphthylene	10	U			
2,6-Dinitrotoluene	10	U			
3-Nitroaniline	25	U			
Acenaphthene	10	U			
2,4-Dinitrophenol	25	U			
4-Nitrophenol	25	U			
Dibenzofuran	10	U			
2,4-Dinitrotoluene	10	U			
Diethylphthalate	10	U			
4-Chlorophenyl-phenylether	10	U			
Fluorene	10	U			
4-Nitroaniline	25	U			
4,6-Dinitro-2-methylphenol	25	U			
N-Nitrosodiphenylamine (1)	10	U			
4-Bromophenyl-phenylether	10	U			
Hexachlorobenzene	10	U			
Pentachlorophenol	25	U			
Phenanthrene	10	U			
Anthracene	10	U			
Carbazole	10	U			
Di-n-butylphthalate	10	U			
Fluoranthene	10	U			
Pyrene	10	U			
Butylbenzylphthalate	10	U			
3,3'-Dichlorobenzidine	10	U			
Benzo(a)anthracene	10	U			
Chrysene	10	U			
bis(2-Ethylhexyl)phthalate	0.5	J			
Di-n-octylphthalate	10	U			
Benzo(b)fluoranthene	10	U			
Benzo(k)fluoranthene	10	U			
Benzo(a)pyrene	10	U			
Indeno(1,2,3-cd)pyrene	10	U			
Dibenzo(a,h)anthracene	10	U			
Benzo(g,h,i)perylene	10	U			

TCL ORIGINAL SPREADSHEET

Case No: 25141
SDG No: EBJC5

Site: Decatur/Brading & Spur
Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	EBJC5 G101 Routine Sample Water/ 1.0	EBJC5MS Matrix Spike Water/ 1.0	EBJC5MSD Matrix Spike Dup Water/ 1.0	EBJC6 G102 Routine Sample Water/ 1.0	EBJC8 G103 Routine Sample Water/ 1.0			
PES								
alpha-BHC	0.05	U	0.05	U	0.05	UJ	0.05	UJ
beta-BHC	0.05	U	0.05	U	0.05	U	0.05	UJ
delta-BHC	0.05	U	0.05	U	0.05	U	0.05	UJ
gamma-BHC (Lindane)	0.05	UJ	0.35	J	0.47	J	0.05	UJ
Heptachlor	0.05	UJ	0.36		0.45		0.05	UJ
Aldrin	0.05	U	0.38		0.48		0.05	UJ
Heptachlor epoxide	0.05	U	0.05	U	0.05	U	0.05	UJ
Endosulfan I	0.05	U	0.05	U	0.05	U	0.05	UJ
Dieldrin	0.10	UJ	0.85		1.1		0.10	UJ
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	UJ
Endrin	0.10	UJ	0.93		1.2		0.10	UJ
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	UJ
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	UJ
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	UJ
4,4'-DDT	0.10	U	0.87		1.0		0.10	UJ
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	UJ
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	UJ
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	UJ
alpha-Chlordane	0.05	U	0.05	U	0.05	U	0.05	UJ
gamma-Chlordane	0.05	U	0.05	U	0.05	U	0.05	UJ
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	UJ
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	UJ
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	UJ
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	UJ

FILE NAME: EBJC5 DATE: 01/07/97 TIME: 9:18 CADRE 2.3

PAGE: 5

Water units are reported in ug/L.
Soil units are reported in ug/Kg.

TCL ORIGINAL SPREADSHEET

Case No: 25141
 SDG No: EBJC5

Site: Decatur/Brading & Speur
 Laboratory: AMER ANALYTICAL TECH SERV

EPA SAMPLE NUMBER: REGIONAL SAMPLE NUMBER: SAMPLE LOCATION: SAMPLE TYPE: MATRIX/ANALYSIS: DILUTION FACTOR: PERCENT MOISTURE:	PBLK1				
PES	Method Blank Water/ 1.0				
alpha-BHC	0.05	U			
beta-BHC	0.05	U			
delta-BHC	0.05	U			
gamma-BHC (Lindane)	0.05	U			
Heptachlor	0.05	U			
Aldrin	0.05	U			
Heptachlor epoxide	0.05	U			
Endosulfan I	0.05	U			
Dieldrin	0.10	U			
4,4'-DDE	0.10	U			
Endrin	0.10	U			
Endosulfan II	0.10	U			
4,4'-DDD	0.10	U			
Endosulfan sulfate	0.10	U			
4,4'-DDT	0.10	U			
Methoxychlor	0.50	U			
Endrin ketone	0.10	U			
Endrin aldehyde	0.10	U			
alpha-Chlordane	0.05	U			
gamma-Chlordane	0.05	U			
Toxaphene	5.0	U			
Aroclor-1016	1.0	U			
Aroclor-1221	2.0	U			
Aroclor-1232	1.0	U			
Aroclor-1242	1.0	U			
Aroclor-1248	1.0	U			
Aroclor-1254	1.0	U			
Aroclor-1260	1.0	U			

FILE NAME: EBJC5 DATE: 01/07/97 TIME: 09:18 CADRE 2.3

PAGE: 6

Water units are reported in ug/L.
 Soil units are reported in ug/Kg.

Sample	TIC	TICS Ret.Time	Conc.	Units	Flags
EBJC5	UNKNOWN	4.47	6	UG/L	J
EBJC6	UNKNOWN	8.17	6	UG/L	J
	UNKNOWN	8.92	6	UG/L	J
	1-PROPENE, 3-CHLORO-	5.07	19	UG/L	JN
EBJC8	UNKNOWN	11.12	6	UG/L	J
	1-PROPENE, 3-CHLORO-	5.12	20	UG/L	JN
EBJC5	UNKNOWN	4.97	3	UG/L	J
	UNKNOWN	5.50	2	UG/L	J
	UNKNOWN	5.78	2	UG/L	J
	UNKNOWN	6.00	40	UG/L	J
	UNKNOWN	6.28	6	UG/L	J
	UNKNOWN	7.80	3	UG/L	J
	UNKNOWN	13.63	4	UG/L	J
	UNKNOWN	15.87	4	UG/L	J
EBJC6	UNKNOWN	5.55	3	UG/L	J
	UNKNOWN	5.80	3	UG/L	J
	UNKNOWN	8.25	6	UG/L	J
	UNKNOWN	8.53	4	UG/L	J
	UNKNOWN	8.73	4	UG/L	J
	UNKNOWN	9.07	7	UG/L	J
	UNKNOWN	9.18	2	UG/L	J
	UNKNOWN	9.43	10	UG/L	J
	UNKNOWN	9.65	6	UG/L	J
	UNKNOWN	9.92	11	UG/L	J
	UNKNOWN	10.10	3	UG/L	J
	UNKNOWN	10.45	14	UG/L	J
	UNKNOWN	10.60	13	UG/L	J
	UNKNOWN	11.42	4	UG/L	J
	UNKNOWN	11.97	5	UG/L	J
	UNKNOWN	12.78	41	UG/L	J
	UNKNOWN	15.97	8	UG/L	J
	UNKNOWN ACID	7.22	3	UG/L	J
	UNKNOWN AROMATIC	5.13	3	UG/L	J
	UNKNOWN AROMATIC	6.02	4	UG/L	J
	UNKNOWN AROMATIC	6.52	3	UG/L	J
	BENZENE, PROPYL-	5.65	3	UG/L	JN
	SULFUR, MOL. (S ₂)	14.23	37	UG/L	JN
	PHOSPHORIC ACID TRIBUTYL EST	11.20	9	UG/L	JN
	DIETHYLTOLUAMIDE	10.82	5	UG/L	JN
	PHENOBARBITAL	13.68	32	UG/L	JN
	BENZENESULFONAMIDE, N-ETHYL-	11.85	5	UG/L	JN
	SACCHARIN	12.08	13	UG/L	JN
	NAPHTHALENE, 1-METHYL-	8.90	3	UG/L	JN
	2(3H)-BENZOTHIAZOLONE	11.62	56	UG/L	JN
EBJC8	UNKNOWN	5.78	2	UG/L	BJU
	UNKNOWN	7.55	2	UG/L	J
	UNKNOWN	8.27	2	UG/L	J
	UNKNOWN	9.43	7	UG/L	J
	UNKNOWN	9.65	5	UG/L	J
	UNKNOWN	10.45	28	UG/L	J

UNKNOWN	11.42	4	UG/L	J
UNKNOWN	12.77	49	UG/L	J
UNKNOWN	15.98	4	UG/L	J
UNKNOWN	17.85	4	UG/L	J
UNKNOWN ACID	8.43	0.6 600	UG/L	J <i>AFS 01116197</i>
UNKNOWN ACID	9.08	2	UG/L	J
UNKNOWN ACID	10.10	12	UG/L	J
UNKNOWN AROMATIC	9.78	9	UG/L	J
BENZENE, PROPYL-	5.65	2	UG/L	JN
SULFUR, MOL. (S8)	14.25	45	UG/L	JN
PHOSPHORIC ACID TRIBUTYL EST	11.22	8	UG/L	JN
DIETHYLTOLUAMIDE	10.82	5	UG/L	JN
PHENOBARBITAL	13.68	41	UG/L	JN
BENZENESULFONAMIDE, N-ETHYL-	11.85	9	UG/L	JN
SACCHARIN	12.08	11	UG/L	JN
2(3H)-BENZOTHIAZOLONE	11.65	51	UG/L	JN
BENZENE, (1-METHYLETHYL)-	5.13	2	UG/L	JN

SBLK6P

UNKNOWN	5.32	22	UG/L	J
UNKNOWN	5.48	3	UG/L	J
UNKNOWN	5.72	3	UG/L	J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 01-02-97

SUBJECT: Review of Region V CLP Data
Received for Review on Dec 19, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section /L.F.

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Decatur/Bardings & Spaur (IL)

CASE NUMBER: 25141 SDG NUMBER: MEAQK5

Number and Type of Samples: 3 Cluster)

Sample Numbers: MEAQK5, MEAQL 7-8

Laboratory: Chenteck Hrs. for Review: 8+05

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg

RECEIVED

JAN 09 1997

IEPA/DLPC

cc: Regional TPO
Brian Freeman
HSMC-5J

NARRATIVE

SITE: Decatur/Bardings & Spawr
Laboratory: Chemtech

CASE: 25141
SDG : MEAQK5

The laboratory's portion of case 25141 contains 3 low level water samples analyzed for total metals and cyanide. The following narrative lists the out-of-control audits and their possible effect on the sample results.

Evidential Audit: The ICP raw data are copies; the originals may be found in case 25129, SDG# MDLT96. All other forms, raw data, chain-of-custody form, and sample tags were original. No airbill was included with the case; however, a FEDEX sticker was provided along with a note stating that no other document was available. All other documents were present in the order as indicated on form DC-2 (inventory sheet).

ICP Analyses: The calibration blank was found to contain Al (119.5 ug/L), Ni (2.8 ug/L), and Zn (2.2 ug/L). All Al data, Ni on MEAQL7, and Zn on MEAQL7 are estimated (J) due to contamination.

The 24.8% Sb duplicate RPD is greater than the 20% acceptance limit; however, the difference between duplicate results is less than CRDL, and all Sb data are acceptable.

Other Qualifiers: All mercury and cyanide data are acceptable.

Reviewed by: J. Ganz J. Ganz Date: 12-30-96

ECCLESIASTICUS 30

Page - 01

CASE 1541

DATA SET: MEAKS

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12-27-96.

SITE: Decatur/Bardings & Spawr **MATRIX:**

ANSI CHEMTECH COME

J. Ganz
REVISED BY

SITE: Decatur / Barding & Spawr MATH: III

H&H Chemtech
SOMI

T. Ganz

WATER SAMPLE SPK!

MATERIALE

SOIL SAMPLE SPECS

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DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

- U** Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J** Indicates the associated value is an estimated quantity.
- R** Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UJ** Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E** Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M** Indicates duplicate injection precision is not met.
- N** Indictaes the spike sample recovery is not within control limits.
- S** Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W** Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- +** Indicates the correlation coefficient for the MSA is less than 0.995.
- *** Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

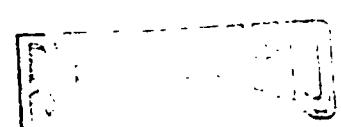
SOW No.: ILM04.0

EPA SAMPLE NO.

MEAQK5
MEAQL7
MEAQL7D
MEAQL7S
MEAQL8

Lab Sample ID.

13188S
13184S
13185S2
13186DS
13187S



US E-
LAB.
CHICAGO, ILLINOIS 60605

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JAN 09 1997

IEPA/DLPC

Were ICP interelement corrections applied?

Yes/No YES

Were ICP background corrections applied?

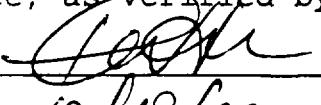
Yes/No YES

If yes-were raw data generated before
application of background corrections?

Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: 

Name: PARVEEN HASAN

Date: 12/18/96

Title: QA/QC OFFICER

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQK5

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQK5

Matrix (soil/water): WATER Lab Sample ID: 13188S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	95.8	B		P
7440-36-0	Antimony	11.1	B		P
7440-38-2	Arsenic	8.0	U		P
7440-39-3	Barium	250			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	99600			P
7440-47-3	Chromium	2.6	B		P
7440-48-4	Cobalt	4.2	B		P
7440-50-8	Copper	4.0	U		P
7439-89-6	Iron	19800			P
7439-92-1	Lead	2.8	B		P
7439-95-4	Magnesium	49600			P
7439-96-5	Manganese	128			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	23.5	B		P
7440-09-7	Potassium	74200			P
7782-49-2	Selenium	54.2			P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	79200			P
7440-28-0	Thallium	39.3			P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	28.4			P
	Cyanide	7.0	U		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQL7

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQK5

Matrix (soil/water): WATER Lab Sample ID: 13184S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	587	-		P
7440-36-0	Antimony	9.8	B		P
7440-38-2	Arsenic	8.0	U		P
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	125000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	4.0	U		P
7439-89-6	Iron	359			P
7439-92-1	Lead	2.0	U		P
7439-95-4	Magnesium	121000			P
7439-96-5	Manganese	1650			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	9.2	B		P
7440-09-7	Potassium	3090	B		P
7782-49-2	Selenium	33.9			P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	54300			P
7440-28-0	Thallium	29.0			P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	6.6	B		P
	Cyanide	7.0	U		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MEAQL8

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQK5

Matrix (soil/water): WATER Lab Sample ID: 13187S

Level (low/med): LOW Date Received: 11/15/96

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	129	B		P
7440-36-0	Antimony	11.9	B		P
7440-38-2	Arsenic	8.0	U		P
7440-39-3	Barium	250			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	100000			P
7440-47-3	Chromium	3.4	B		P
7440-48-4	Cobalt	4.8	B		P
7440-50-8	Copper	4.0	U		P
7439-89-6	Iron	19900			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	50100			P
7439-96-5	Manganese	134			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	26.6	B		P
7440-09-7	Potassium	74100			P
7782-49-2	Selenium	45.6			P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	77300			P
7440-28-0	Thallium	35.5			P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	35.1			P
	Cyanide	7.0	U		CA

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQKS

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum	23.0	U	54.3	B	60.3	B	96.5	B	35.920	B	P
Antimony	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Arsenic	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Calcium	49.0	U	49.0	U	52.0	B	55.8	B	49.000	U	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Iron	23.0	U	25.6	B	25.8	B	25.6	B	23.000	U	P
Lead	2.0	U	2.0	U	2.0	U	-2.0	B	2.000	U	P
Magnesium	28.0	U	48.0	B	30.4	B	66.9	B	28.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	1.1	B	1.4	B	1.8	B	1.9	B	1.380	B	P
Potassium	39.0	U	39.0	U	39.0	U	39.0	U	39.000	U	P
Selenium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	54.0	U	54.0	U	54.0	U	54.0	U	54.000	U	P
Thallium	9.0	U	9.0	U	9.0	U	9.0	U	9.000	U	P
Vanadium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Zinc	1.0	U	1.1	B	1.9	B	1.0	U	1.050	B	P
Cyanide	7.0	U	7.0	U	7.0	U	7.0	U	7.000	U	CA

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum		59.4	B	119.5	B	70.8	B			P
Antimony		5.0	U	5.0	U	5.0	U			P
Arsenic		8.0	U	8.0	U	8.0	U			P
Barium		1.0	U	1.0	U	1.0	U			P
Beryllium		1.0	U	1.0	U	1.0	U			P
Cadmium		1.0	U	1.0	U	1.0	U			P
Calcium	49.0	U	92.5	B	49.0	U				P
Chromium		1.0	U	1.0	U	1.0	U			P
Lead alt		1.0	U	1.0	U	1.0	U			P
Copper		4.0	U	4.0	U	4.0	U			P
Iron	23.0	U	43.8	B	23.0	U				P
Lead	-2.3	B	2.0	U	2.0	U				P
Magnesium	28.0	U	84.6	B	28.0	U				P
Manganese		1.0	U	1.0	U	1.0	U			P
Mercury		0.2	U	0.2	U					CV
Nickel		1.4	B	2.1	B	1.5	B			P
Potassium	39.0	U	40.4	B	39.0	U				P
Selenium		4.0	U	4.0	U	4.0	U			P
Silver		2.0	U	2.0	U	2.0	U			P
Sodium	54.0	U	54.0	U	54.0	U				P
Thallium		9.0	U	9.0	U	9.0	U			P
Vanadium		1.0	U	1.0	U	1.0	U			P
Zinc		1.0	U	1.0	B	1.0	U			P
Cyanide		7.0	U	7.0	U					CA

U.S. EPA - CLP

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQKS

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			111.9	B	56.1	B	64.0	B			P
Antimony			5.0	U	5.0	U	5.0	U			P
Arsenic			8.0	U	8.0	U	8.0	U			P
Barium			1.0	U	1.0	B	1.0	U			P
Beryllium			1.1	B	1.0	U	1.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Calcium			49.0	U	49.2	B	49.0	U			P
Chromium			1.0	U	1.0	U	1.0	U			P
Malt			1.0	U	1.0	U	1.0	U			P
Copper			4.0	U	4.0	U	4.0	U			P
Iron			23.0	U	27.1	B	23.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Magnesium			50.6	B	68.5	B	36.8	B			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			2.1	B	1.6	B	1.1	B			NR
Nickel			39.0	U	39.0	U	39.0	U			P
Potassium			4.0	U	4.0	U	4.0	U			P
Selenium			2.0	U	2.0	U	2.0	U			P
Silver			54.0	U	54.0	U	54.0	U			P
Sodium			9.0	U	9.0	U	9.0	U			P
Thallium			1.0	U	1.0	U	1.0	U			P
Vanadium			1.0	U	2.2	B	1.0	U			P
Zinc											NR
Cyanide											

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
		1	C	2	C	3	C			
Aluminum		43.3	B	91.3	B	56.4	B			P
Antimony		5.0	U	5.0	U	5.0	U			P
Arsenic		8.0	U	8.0	U	8.0	U			P
Barium		1.0	U	1.0	U	1.0	U			P
Beryllium		1.0	U	1.0	U	1.0	U			P
Cadmium		1.0	U	1.0	U	1.0	U			P
Calcium	49.0	U	49.0	U	49.0	U				P
Chromium		1.0	U	1.0	U	1.0	U			P
Salt		1.0	U	1.0	U	1.0	U			P
Copper		4.0	U	4.0	U	4.0	U			P
Iron	23.0	U	23.0	U	23.0	U				P
Lead		2.0	U	2.0	U	2.0	U			P
Magnesium	28.0	U	57.1	B	28.0	U				P
Manganese		1.0	U	1.0	U	1.0	U			P
Mercury		2.2	B	2.6	B	2.6	B			NR
Nickel		39.0	U	39.0	U	39.0	U			P
Potassium		4.0	U	4.0	U	4.0	U			P
Selenium		2.0	U	2.0	U	2.0	U			P
Silver		59.5	B	74.7	B	54.0	U			P
Sodium		9.0	U	9.0	U	9.0	U			P
Thallium		1.0	U	1.0	U	1.0	U			P
Vanadium		1.0	U	1.0	B	1.0	B			P
Zinc										P
Cyanide										NR

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)					Prepa- ration Blank	C	M
			1	C	2	C	3			
Aluminum		-	91.4	B						P
Antimony			5.0	U						P
Arsenic			8.0	U						P
Barium			1.0	U						P
Beryllium			1.0	U						P
Cadmium			1.0	U						P
Calcium			49.0	U						P
Chromium			1.0	U						P
C _o alt			1.0	U						P
Copper			4.0	U						P
Iron			23.0	U						P
Lead			2.0	U						P
Magnesium			54.3	B						P
Manganese			1.0	U						P
Mercury										NR
Nickel			2.8	B						P
Potassium			39.0	U						P
Selenium			4.0	U						P
Silver			2.0	U						P
Sodium			54.0	U						P
Thallium			9.0	U						P
Vanadium			1.0	U						P
Zinc			1.1	B						P
Cyanide										NR

000022

FORM III - IN

ILM04.0

U.S. EPA - CLP

5A

EPA SAMPLE NO.

SPIKE SAMPLE RECOVERY

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL7S

Lab Code: CHEM Case No.: 25141

SAS No.:

SDG No.: MEAQK5

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2404.6500	587.0000	2000.00	90.9	P	
Antimony	75-125	519.7200	9.8300	500.00	102.0	P	
Arsenic	75-125	47.1600	8.0000	40.00	117.9	P	
Barium	75-125	2099.8900	101.2200	2000.00	99.9	P	
Beryllium	75-125	50.9600	1.0000	50.00	101.9	P	
Cadmium	75-125	50.4400	1.0000	50.00	100.9	P	
Calcium						NR	
Chromium	75-125	200.0400	1.0000	200.00	100.0	P	
Cobalt	75-125	490.8300	2.2400	500.00	97.7	P	
Copper	75-125	242.8600	4.0000	250.00	97.1	P	
Iron	75-125	1247.8500	359.1700	1000.00	88.9	P	
Lead	75-125	20.4000	2.0000	20.00	102.0	P	
Magnesium						NR	
Manganese	75-125	2112.7100	1651.8000	500.00	92.2	P	
Mercury	75-125	1.0460	0.2000	1.00	104.6	CV	
Nickel	75-125	487.7400	9.1600	500.00	95.7	P	
Potassium						NR	
Selenium	75-125	45.4800	33.9400	10.00	115.4	P	
Silver	75-125	52.7800	2.0000	50.00	105.6	P	
Sodium						NR	
Thallium	75-125	68.3000	29.0400	50.00	78.5	P	
Vanadium	75-125	507.5000	1.0000	500.00	101.5	P	
Zinc	75-125	515.6200	6.5700	500.00	101.8	P	
Cyanide	75-125	99.6000	7.0000	100.00	99.6	CA	

Comments:

U.S. EPA - CLP

6

EPA SAMPLE NO.

DUPLICATES

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166

MEAQL7D

Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQK5

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	587.0000	-	555.7800	-	5.5	-	P
Antimony		9.8300	B	7.6600	B	24.8		P
Arsenic		8.0000	U	8.0000	U			P
Barium		101.2200	B	100.6100	B	0.6		P
Beryllium		1.0000	U	1.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Calcium		125005.2000		124535.1200		0.4		P
Chromium		1.0000	U	1.0000	U			P
Cobalt		2.2400	B	2.3400	B	4.4		P
Copper		4.0000	U	4.0000	U			P
Iron	100.0	359.1700		330.9600		8.2		P
Lead		2.0000	U	2.0000	U			P
Magnesium		121221.4400		120909.0000		0.3		P
Manganese		1651.8000		1642.7400		0.6		P
Mercury		0.2000	U	0.2000	U			CV
Nickel		9.1600	B	9.4400	B	3.0		P
Potassium		3092.4800	B	3055.3000	B	1.2		P
Selenium		33.9400		31.0600		8.9		P
Silver		2.0000	U	2.0000	U			P
Sodium		54325.4300		54090.8200		0.4		P
Thallium		29.0400		26.1100		10.6		P
Vanadium		1.0000	U	1.0000	U			P
Zinc		6.5700	B	6.6700	B	1.5		P
Cyanide		7.0000	U	7.0000	U			CA

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

ICP ID Number:

Date: 10/15/96

Flame AA ID Number: CN

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	7.0	CA

Comments:

CN: SP-E LAMBDA-1 (UV/VIS) SPECTROMETER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP Contract: 68-D5-0166
 Lab Code: CHEM Case No.: 25141 SAS No.: SDG No.: MEAQK5
 ICP ID Number: Date: 10/15/96
 Flame AA ID Number: CV
 Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

CV: SPECTRO-PRODUCTS MERCURY ANALYZER

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: CHEMTECH CONSULTING GROUP

Contract: 68-D5-0166

Lab Code: CHEM

Case No.: 25141

SAS No.:

SDG No.: MEAQK5

ICP ID Number:

P0

Date: 10/15/96

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	23.0	P
Antimony	206.80		60	5.0	P
Arsenic	189.00		10	8.0	P
Barium	493.40		200	1.0	P
Beryllium	313.00		5	1.0	P
Cadmium	226.50		5	1.0	P
Calcium	317.90		5000	49.0	P
Chromium	267.70		10	1.0	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	4.0	P
Iron	271.40		100	23.0	P
Lead	220.40		3	2.0	P
Magnesium	279.00		5000	28.0	P
Manganese	257.60		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.50		5000	39.0	P
Selenium	196.00		5	4.0	P
Silver	328.00		10	2.0	P
Sodium	588.90		5000	54.0	P
Thallium	190.90		10	9.0	P
Vanadium	292.40		50	1.0	P
Zinc	206.20		20	1.0	P
Cyanide			10		NR

Comments:

P0: ICP 61E TRACE ANALYZER

FORM X - IN

000036

ILM04.0



United States Environmental Protection Agency
Contract Laboratory Program

**Inorganic Traffic Report
& Chain of Custody Record**
(For Inorganic CLP Analysis)

1. Project Code	Account Code	2. Region No.	Sampling Co.	4. Date Shipped Carrier Airbill Number	5. Ship To Chem-Tech Consulting Group 110 Route 4 Englewood, NJ 07631 ATTN: Bobby Morone/it	6. Matrix (Enter In Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	Case No. 25141				
Regional Information			Sampler (Name) <i>Brad Taylor</i>	7585690403			7. Preservative (Enter In Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2Cr2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved				
Non-Superfund Program			Sampler Signature <i>Brad Taylor</i>	3. Purpose: Long Term Action CLEM PA REM RI SI ESI	4. Sampling Action SF PAP ST FED	5. Sampling Location Identifier D G H J K L M N O P Q R S T U V W X Y Z	8. Long Term Action FS RD RA O&M NPLD				
Site Name Director	Banding Spear	Site Spill ID Z Z	City, State Deerfield, IL								
CLP Sample Numbers (from label)	A Matrix Conc. (from Box 6) Low Med High	B Conc. (from Box 6) Low Med High	C Sample Type: Comp/ Grab	D Preser- val value (from Box 7) Other	E - RAS Analysis Low High Temp cm ³ NO ₂ SO ₂ NO _x Spikes Total Metals Others	F Regional Specific Tracking Numbers or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K Field OC Qualifier B. Start C. Duration D. End E. Return F. Revert G. Hold H. Not Used
MEAQL7	2	L	G	X	5-163724	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL7	8	L	G	X	5-163725	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL8	2	L	G	X	5-163726	G102	11-14-90 / 4/30	EPJCS	B.T.	—	
MEAQL8	2	L	G	X	5-163727	G102	11-14-90 / 4/30	EPJCS	B.T.	—	
MEAQL5	01	L	G	X	5-163728	G103	11-14-90 / 4/30	EPJCS	B.T. (Received)	—	
MEAQL5	2	L	G	X	5-163729	G103	11-14-90 / 4/30	EPJCS	B.T. (Received)	—	
MEAQL7	2	L	G	X	5-163730	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL7	2	L	G	X	5-163731	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL7	2	L	G	X	5-163732	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL7	2	L	G	X	5-163733	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
MEAQL7	2	L	G	X	5-163733	G101	11-13-90 / 4/30	EPJCS	B.T.	—	
Shipment for Case Complete? (C)	Page 1 of 1	Samplers to be Used for Laboratory QC			Additional Sampler Signatures			Chain of Custody Seal Number(s) 48462 / 48463			
CHAIN OF CUSTODY RECORD											
Relinquished by: (Signature) <i>Brad Taylor</i>	Date / Time 11-14-90 / 4:00	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)		
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time		

DISTRIBUTION:

Green - Region Copy
White - Lab Copy for Return to Region
Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

362682